

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:38:05 ; Search time 23.5 Seconds
(without alignments)
20.472 Million cell updates/sec

Title: SEQ1
Perfect score: 27
Sequence: 1 ffglm 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 206

Minimum DB seq length: 0
Maximum DB seq length: 5

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 79: *
1: pir1: *
2: pir2: *
3: pir3: *
4: pir4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	66.7	5	2 PT0278	Ig heavy chain CRD
2	14	51.9	5	2 A44955	alkanal monooxygen
3	12	44.4	4	2 JQ1273	neuropeptide Antho
4	11	40.7	5	2 A61445	Met-enkephalin - b
5	10	37.0	4	2 PT0240	Ig heavy chain CRD
6	10	37.0	4	2 A53284	T-cell receptor be
7	10	37.0	5	2 G44817	27.5 kda structura
8	10	37.0	5	2 I44817	27.5K structural p
9	10	37.0	5	2 E44817	28.5K structural p
10	10	37.0	5	2 C44817	28K structural pro
11	10	37.0	5	2 A44817	blood cell protein
12	9	33.3	3	3 S68328	cholecystokinin-5
13	9	33.3	5	2 A32516	photosystem I 10.4
14	9	33.3	5	2 PQ0689	Leu-enkephalin - b
15	9	33.3	5	2 B61445	T-cell receptor be
16	8	29.6	4	2 PT0633	T-cell receptor be
17	8	29.6	5	2 PT0572	spinal cord peptid
18	7	25.9	4	3 B23751	synaptosomal-assoc
19	7	25.9	4	2 E44823	T-cell receptor be
20	7	25.9	4	2 B53284	hypothetical prote
21	7	25.9	5	2 T10954	gut pentapeptide -
22	7	25.9	5	2 JH0253	surface protein te
23	7	25.9	5	2 S69237	T-cell receptor be
24	6	22.2	3	3 PT0636	T-cell receptor be
25	6	22.2	3	3 PT0571	growth-modulating
26	6	22.2	3	3 GKHU	bursin - chicken
27	6	22.2	3	3 A60898	spinal cord peptid
28	6	22.2	4	3 A23751	antho-RFamide neur
29	6	22.2	4	1 ECXAA	

30	6	22.2	4	2 D41654	hypothetical prote
31	6	22.2	4	2 S53508	starvation-induced
32	6	22.2	4	2 T30569	hypothetical prote
33	6	22.2	4	2 I38888	COI intron 16 prot
34	6	22.2	4	2 A25844	autho-RF amide neu
35	6	22.2	4	2 A34626	RPCH-related neuro
36	6	22.2	4	2 S39390	myosin-light-chain
37	6	22.2	4	2 S43959	Ig mu chain V regi
38	6	22.2	4	2 S47552	ubiquitin - rat
39	6	22.2	4	2 S09478	globulin IV alpha
40	6	22.2	4	2 PL0140	carbon-monoxide de
41	6	22.2	4	2 A35779	neuropeptide Antho
42	6	22.2	4	2 A60418	PMRFamide - polych
43	6	22.2	4	2 A32480	achatin-1 - giant
44	6	22.2	4	2 PT0271	Ig heavy chain CRD
45	6	22.2	4	2 PT0711	T-cell receptor be

ALIGNMENTS

RESULT 1

PT0278
Ig heavy chain CRD3 region (clone 4-88) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PT0278
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and j
A;Reference number: PT0222; MUID:91108337; PMID:1999102
A;Accession: PT0278
A;Molecule type: DNA
A;Residues: 1-5 <YAM>
A;Experimental source: B lymphocyte
A;Keywords: heterotetramer; immunoglobulin

Query Match 66.7%; Score 18; DB 2; Length 5;
Best Local Similarity 40.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
DB 1 YFGVL 5

RESULT 2

A4955
alkanal monooxygenase (FMN-linked) (EC 1.14.14.3) alpha chain - Vibrio harveyi (fragment)
C;Species: Vibrio harveyi
C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 26-May-2000
C;Accession: A44955
R;Paquette, O.; Tu, S.C.
Photochem. Photobiol. 50, 817-825, 1989
A;Title: Chemical modification and characterization of the alpha cysteine 106 at the Vib
A;Reference number: A44955; MUID:90175700; PMID:2626493
A;Accession: A44955
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-5 <PAQ>
C;Keywords: FMN; luminescence; monooxygenase; oxidoreductase

Query Match 51.9%; Score 14; DB 2; Length 5;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 FGL 4
DB 1 FGI 3

RESULT 3

JQ1273

neuropeptide Antho-KAamide - sea anemone (Anthopleura elegantissima)
 C:Species: Anthopleura elegantissima
 C:Date: 31-Mar-1992 #sequence_revision 04-Dec-1992 #text_change 09-Jul-2004
 C:Accession: J01273
 R:Notchacker, H.P.; Rinehart, K.L.; Grimmelikhuijzen, C.J.P.
 Biochem. Biophys. Res. Commun. 179, 1205-1211, 1991
 A:Title: Isolation of L-3-phenylacetyl-Phe-Lys-Ala-NH2 (Antho-KAamide), a novel neuropeptide
 A:Reference number: J01273; PMID:92028852; PMID:1681803
 A:Accession: J01273
 A:Molecule type: protein
 A:Residues: 1-4 <NOT>
 A:Cross-references: UNIPROT:P58705
 C:Comment: The carboxyl-terminal amide probably arises from cleavage of a following glycopeptide
 C:Keywords: amidated carboxyl end; neuropeptide; phenylacetylation
 F:1/Modified site: L-3-phenylacetic acid (Phe) #status experimental
 F:4/Modified site: amidated carboxyl end (Ala) #status experimental

Query Match 44.4%; Score 12; DB 2; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PF 2
 ||
 Db 1 PF 2

RESULT 4
 A61445
 Met-enkephalin - blue mussel
 C:Species: Mytilus edulis (blue mussel)
 C:Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
 C:Accession: A61445
 R:Leung, M.K.; Stefano, G.B.
 Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
 A:Title: Isolation and identification of enkephalins in pedal ganglia of Mytilus edulis
 A:Reference number: A61445; PMID:84144823; PMID:6583690
 A:Accession: A61445
 A:Molecule type: protein
 A:Residues: 1-5 <LEU>
 A:Experimental source: pedal ganglia
 C:Keywords: neuropeptide; opioid peptide

Query Match 40.7%; Score 11; DB 2; Length 5;
 Best Local Similarity 66.7%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GLM 5
 ||
 Db 3 GFM 5

RESULT 5
 PT0240
 Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)
 C:Species: Homo sapiens (man)
 C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
 C:Accession: PT0240
 R:Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
 J. Exp. Med. 173, 395-407, 1991
 A:Title: Preferential utilization of specific immunoglobulin heavy chain diversity and J
 A:Reference number: PT0222; PMID:91108337; PMID:1899102
 A:Accession: PT0240
 A:Molecule type: DNA
 A:Residues: 1-4 <YAM>
 A:Experimental source: B lymphocyte
 C:Keywords: heterotetramer; immunoglobulin

Query Match 37.0%; Score 10; DB 2; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4
 ||
 Db 3 GL 4

Db 3 GL 4

RESULT 6
 A53284
 T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
 C:Species: Oryctolagus cuniculus (domestic rabbit)
 C:Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
 C:Accession: A53284
 R:Harindranath, N.; Alexander, C.B.; Mage, R.G.
 Mol. Immunol. 28, 881-888, 1991
 A:Title: Evolutionarily conserved organization and sequences of germline diversity and J
 A:Reference number: A53284; PMID:91342695; PMID:1678859
 A:Accession: A53284
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-4 <HAR>
 A:Cross-references: GB:S60737; NID:9233916; PIDN:AAB19517.1; PID:9233917
 A:Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60739)
 C:Keywords: T-cell receptor

Query Match 37.0%; Score 10; DB 2; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4
 ||
 Db 1 GL 2

RESULT 7
 G44817
 27.5 kda structural protein - Leuconostoc oenos phage P32 (fragment)
 C:Species: Leuconostoc oenos phage P32
 C:Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
 C:Accession: G44817
 R:Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
 J. Gen. Microbiol. 137, 2135-2139, 1991
 A:Title: Lysogeny in Leuconostoc oenos.
 A:Reference number: A44817; PMID:92085033; PMID:1748868
 A:Accession: G44817
 A:Molecule type: protein
 A:Residues: 1-5 <ARE>
 A:Note: sequence extracted from NCBI backbone (NCBIP:70333)

Query Match 37.0%; Score 10; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4
 ||
 Db 4 GL 5

RESULT 8
 I44817
 27.5K structural protein - Leuconostoc oenos phage P37 (fragment)
 C:Species: Leuconostoc oenos phage P37
 C:Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
 C:Accession: I44817
 R:Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
 J. Gen. Microbiol. 137, 2135-2139, 1991
 A:Title: Lysogeny in Leuconostoc oenos.
 A:Reference number: A44817; PMID:92085033; PMID:1748868
 A:Accession: I44817
 A:Molecule type: protein
 A:Residues: 1-5 <ARE>
 A:Note: sequence extracted from NCBI backbone (NCBIP:70330)

Query Match 37.0%; Score 10; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4
 ||
 Db 4 GL 5

QY 3 GL 4
||
Db 4 GL 5

RESULT 9

E44817
27.5K structural protein - Leuconostoc oenos phase P54 (fragment)
C/Species: Leuconostoc oenos phase P54
C/Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C/Accession: E44817
R/Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
J. Gen. Microbiol. 137, 2135-2139, 1991
A/Title: Lysogeny in Leuconostoc oenos.
A/Reference number: A44817; MUID:92085033; PMID:1748868
A/Accession: E44817
A/Molecule type: protein
A/Residues: 1-5 <ARE>
A/Note: sequence extracted from NCBI backbone (NCBIP:70336)

Query Match 37.0%; Score 10; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4
||
Db 4 GL 5

RESULT 10

C44817
28.5K structural protein - Leuconostoc oenos phase P45-12 (fragment)
C/Species: Leuconostoc oenos phase P45-12
C/Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C/Accession: C44817
R/Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
J. Gen. Microbiol. 137, 2135-2139, 1991
A/Title: Lysogeny in Leuconostoc oenos.
A/Reference number: A44817; MUID:92085033; PMID:1748868
A/Accession: C44817
A/Molecule type: protein
A/Residues: 1-5 <ARE>
A/Note: sequence extracted from NCBI backbone (NCBIP:70341)

Query Match 37.0%; Score 10; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4
||
Db 4 GL 5

RESULT 11

A44817
28K structural protein - Leuconostoc oenos phase P2t11-15 (fragment)
C/Species: Leuconostoc oenos phase P2t11-15
C/Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C/Accession: A44817
R/Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
J. Gen. Microbiol. 137, 2135-2139, 1991
A/Title: Lysogeny in Leuconostoc oenos.
A/Reference number: A44817; MUID:92085033; PMID:1748868
A/Accession: A44817
A/Molecule type: protein
A/Residues: 1-5 <ARE>
A/Note: sequence extracted from NCBI backbone (NCBIP:70343)

Query Match 37.0%; Score 10; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4

Db ||
4 GL 5

RESULT 12

S68328
blood cell protein A - Molgula manhattensis (fragment)
C/Species: Molgula manhattensis
C/Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
C/Accession: S68328
R/Taylor, S.W.; Ross, M.M.; Waite, J.H.
Arch. Biochem. Biophys. 324, 228-240, 1995
A/Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing polypeptides from t1
A/Reference number: S68325; MUID:96132650; PMID:8554314
A/Accession: S68328
A/Molecule type: protein
A/Residues: 1-3 <TAY>

Query Match 33.3%; Score 9; DB 3; Length 3;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FF 2
|:
Db 2 FY 3

RESULT 13

A32516
cholecystokinin-5 - dog
N/Alternate names: CKK-5
C/Species: Canis lupus familiaris (dog)
C/Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
C/Accession: A32516
R/Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vigna, S.R.; Walsh, J.H.
Am. J. Physiol. 252, G272-G275, 1987
A/Title: CKK-5: sequence analysis of a small cholecystokinin from canine brain and intest
A/Reference number: A32516; MUID:87153871; PMID:3826354
A/Accession: A32516
A/Molecule type: protein
A/Residues: 1-5 <SHI>
C/Comment: This peptide corresponds to the five carboxyl-terminal residues of cholecyst
C/Superfamily: gastrin
C/Keywords: amidated carboxyl end; neuropeptide
F;5/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 33.3%; Score 9; DB 2; Length 5;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GLM 5
||
Db 1 GWM 3

RESULT 14

PQ0689
photosystem I 10.4K H1 chain - common tobacco (fragment)
C/Species: Nicotiana tabacum (common tobacco)
C/Date: 19-May-1994 #sequence_revision 19-May-1994 #text_change 17-Mar-1999
C/Accession: PQ0689
R/Obokata, J.; Mikami, K.; Hayashida, N.; Nakamura, M.; Sugitara, M.
Plant Physiol. 102, 1259-1267, 1993
A/Title: Molecular heterogeneity of photosystem I. psalD, psalF, psalH and psal are
A/Reference number: PQ0667; MUID:94105345; PMID:8278548
A/Accession: PQ0689
A/Molecule type: protein
A/Residues: 1-5 <OBO>
C/Keywords: chloroplast; photosynthesis; photosystem I; thylakoid

Query Match 33.3%; Score 9; DB 2; Length 5;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Wed Mar 23 15:33:42 2005

QY 2 FG 3
:|
Db 2 YG 3

RESULT 15
B61445
Leu-enkephalin - blue mussel
C:Species: Mytilus edulis (blue mussel)
C:Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
C:Accession: B61445
R:Leung, M.K.; Stefano, G.B.
Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
A:Title: Isolation and identification of enkephalins in pedal ganglia of Mytilus edulis
A:Reference number: A61445; MUID:84144823; PMID:6583690
A:Accession: B61445
A:Molecule type: protein
A:Residues: 1-5 <LEU>
A:Experimental source: pedal ganglia
C:Keywords: neuropeptide; opioid peptide

Query Match 33.3%; Score 9; DB 2; Length 5;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 FG 3
:|
Db 1 YG 2

Search completed: March 23, 2005, 14:51:53
Job time : 25.5 secs

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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:21:29 ; Search time 112.5 Seconds
(without alignments)
22.759 Million cell updates/sec

Title: SEQ1
Perfect score: 27
Sequence: 1 ffglm 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 53

Minimum DB seq length: 0
Maximum DB seq length: 5

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 03.*
1: uniprot_sprot.*
2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	16	59.3	5	1	ALL4_CARMA	P81817 carcinus ma
2	12	44.4	4	1	FFKA_ANCEL	P58705 anthopleura
3	12	44.4	4	1	OCPI_OCTMI	P38648 octopus min
4	12	44.4	5	1	PAP2_PARMA	P81864 pardachirus
5	12	44.4	5	1	RE11_LITRU	P82070 litorea rub
6	12	44.4	5	1	RE21_LITRU	P82071 litorea rub
7	12	44.4	5	1	RE31_LITRU	P82072 litorea rub
8	12	44.4	5	1	RE32_LITRU	P82073 litorea rub
9	12	44.4	5	1	UC22_MAIZE	P80628 zea mays (m
10	11	40.7	5	1	TPIS_CANFA	P54714 canis famil
11	9	33.3	4	1	FYRI_ANCEL	P58706 anthopleura
12	9	33.3	4	1	ILME_SEPOP	P83568 sepia offic
13	7	25.9	5	1	UF01_MOUSE	P38639 mus musculu
14	6	22.2	2	1	GWA_SEPOP	P83570 sepia offic
15	6	22.2	3	1	GRWM_HUMAN	P01157 homo sapien
16	6	22.2	4	1	ACH1_ACHFU	P35904 achatina fu
17	6	22.2	4	1	DCML_PSECH	P19916 pseudomonas
18	6	22.2	4	1	EOSI_HUMAN	P02731 homo sapien
19	6	22.2	4	1	FAR3_HIRME	P42562 hirudo medi
20	6	22.2	4	1	FAR4_HIRME	P42563 hirudo medi
21	6	22.2	4	1	FLRP_HIRME	P42561 hirudo medi
22	6	22.2	4	1	FLRN_ANCEL	P58707 anthopleura
23	6	22.2	4	1	FMRF_MAGNI	P01162 macrocallis
24	6	22.2	4	1	OCP3_OCTMI	P58649 octopus min
25	6	22.2	4	2	Q16047	Q16047 homo sapien
26	6	22.2	5	1	AP21_EISFO	P84182 eisenia foe
27	6	22.2	5	1	EI03_LITRU	P82099 litorea rub
28	6	22.2	5	1	EI04_LITRU	P82100 litorea rub
29	6	22.2	5	1	FARP_ARTTR	P41853 artiopeothi
30	6	22.2	5	1	FARP_CHICK	P83308 gallus gall
31	6	22.2	5	1	SUGA_ACHDO	P19991 acheta dome

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32 6 22.2 5 1 UXAA_CHLTR P38005 chlamydia t
33 5 18.5 4 1 DCMS_PSECH P19918 pseudomonas
34 5 18.5 4 2 Q96AT0 Q96AT0 homo sapien
35 5 18.5 5 1 BIOA_CITFR P13071 citrobacter
36 5 18.5 5 1 BIOB_CITFR P12997 citrobacter
37 5 18.5 5 2 Q99007 Q99007 hordeum vul
38 5 18.5 5 2 P83073 P83073 bacillus ce
39 4 14.8 4 2 Q08433 Q08433 rattus sp.
40 4 14.8 5 1 PRCT_CARMA P67857 carcinus ma
41 4 14.8 5 1 PRCT_LIMPO P67857 limulus pol
42 4 14.8 5 1 PRCT_PERAM P67859 periplaneta
43 3 11.1 5 1 PSK_DAUCA P58261 daucus caro
44 2 7.4 3 1 LUXE_VIRFI P24272 vibrio fisc
45 1 3.7 4 1 YLM1_YEAST P36515 saccharomyc

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ALIGNMENTS

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RESULT 1
ALL4_CARMA STANDARD; PRT; 5 AA.
ID AL14_CARMA
AC P81817;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Carcinustatin 14.
OS Carcinus maenas (Common shore crab) (Green crab).
OC Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
OC Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
OC Eubrachyura; Portunioidea; Portunidae; Carcinus.
OX NCBI_TaxID=6759;
RN [1]
RP SEQUENCE.
RC TISSUE=Cerebral ganglion, and Thoracic ganglion;
RX MEDLINE=98121193; PubMed=9461295;
RA Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros P.P.,
RA Thorpe A.;
RT "Isolation and identification of multiple neuropeptides of the
RL allatostatin superfamily in the shore crab Carcinus maenas.";
RL Eur. J. Biochem. 250:727-734(1997).
CC -1- FUNCTION: May act as a neurotransmitter or neuromodulator.
CC -1- SIMILARITY: Belongs to the allatostatin family.
KW Amidation; Direct protein sequencing; Multigene family; Neuropeptide.
FT MOD_RES 5 5 Leucine amide (Potential).
SQ SEQUENCE 5 AA; 586 MW; 672879D5AB300000 CRC64;

Query Match 59.3%; Score 16; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FGL 4
Db 3 FGL 5

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RESULT 2
FFKA_ANCEL STANDARD; PRT; 4 AA.
ID FFKA_ANCEL
AC P58705;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Antho-KAamide.
OS Anthopleura elegantissima (Sea anemone).
OC Eukaryota; Metazoa; Cnidaria; Anthozoa; Actiniaria;
OC Nymanthea; Actiniidae; Anthopleura.
OX NCBI_TaxID=6110;
RN [1]
RP SEQUENCE.
RC MEDLINE=92028852; PubMed=1681803;
RX Nothacker H.-P., Rinehart K.L. Jr., Grimmelikhuijzen C.J.P., a
RA "Isolation of L-3-phenyllactyl-Phe-Lys-Ala-NH2 (Antho-KAamide), a

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RT novel neuropeptide from sea anemones."
RL Biochem. Biophys. Res. Commun. 179:1205-1211 (1991).
RN [2]
RP FUNCTION
RX MEDLINE=93391436; PubMed=8397415;
RA McFarlane I.D., Hudman D., Nothacker H.-P., Grimmelikhuijzen C.J.P.;
RT "The expansion behaviour of sea anemones may be coordinated by two
RT inhibitory neuropeptides, Antho-Kamide and Antho-Ramide."
RL Proc. R. Soc. Lond., B, Biol. Sci. 253:183-188 (1993).
CC -1- FUNCTION: Inhibits spontaneous contractions in several muscle
CC groups. May be involved in the expansion phase of feeding
CC behaviour in sea anemones.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC PIR: J01273; J01273.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD RES 1 1 3-phenyllactic acid.
FT MOD RES 4 4 Alanine amide.
SQ SEQUENCE 4 AA; 512 MW; 6DD339C9A0000000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FF 2
DB 1 FF 2

RESULT 3
OCP1_OCTMI STANDARD; PRT; 4 AA.
AC P58628;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Cardioactive peptides Ocp-1/Ocp-2.
OS Octopus minor (Octopus).
OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
OC Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
OX NCBI_TaxID=89766;
RN [1]
RP SEQUENCE, SYNTHESIS, MASS SPECTROMETRY, AND CHARACTERIZATION.
RC TISSUE=Brain;
RX MEDLINE=20336815; PubMed=10876044; DOI=10.1016/S0196-9781(00)00201-1;
RA Iwakoshi E., Hisada M., Minakata H.;
RT "Cardioactive peptides isolated from the brain of a Japanese octopus,
RT Octopus minor."
RL Peptides 21:623-630 (2000).
CC -1- FUNCTION: Cardioactive; has both positive chronotropic and
CC inotropic effects on the heart. Ocp-2 is a 1000 time less active
CC than Ocp-1.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- PTM: Ocp-2 has L-Phe instead of D-Phe.
CC -1- MASS SPECTROMETRY: MW=395.2; METHOD=MALDI; RANGE=1-4; NOTE=Ref.1.
KW D-amino acid; Direct protein sequencing; Hormone.
FT MOD RES 2 2
FT MOD RES 4 4 D-phenylalanine (in form Ocp-1).
SQ SEQUENCE 4 AA; 394 MW; 6A879C8100000000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FG 3
DB 2 FG 3

RESULT 4
PAP2_PARMA STANDARD; PRT; 5 AA.
AC P81864;
DT 30-MAY-2000 (Rel. 39, Created)

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DT 30-MAY-2000 (Rel. 39, Last sequence update)
DE Pardaxin II (PXII) [Fragment].
OS Pardachirus marmoratus (Red sea mores sole).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Pleuronectiformes;
OC Soleioidi; Soleidae; Pardachirus.
OX NCBI_TaxID=31087;
RN [1]
RP SEQUENCE
RC TISSUE=Skin secretion;
RX MEDLINE=87057369; PubMed=3782138;
RA Lazarovici P., Primor N., Loew L.M.;
RT "Purification and pore-forming activity of two hydrophobic
RT polypeptides from the secretion of the Red sea mores sole (Pardachirus
RT marmoratus)."
RL J. Biol. Chem. 261:16704-16713 (1986).
CC -1- FUNCTION: Exhibits unusual shark repellent and surfactant
CC properties. Forms voltage-dependent, ion-permeable channels in
CC membranes. At high concentration causes cell membrane lysis.
CC -1- SUBUNIT: Monomer. In aqueous solution exists as a tetramer.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the pardaxin family.
KW Direct protein sequencing; Toxin.
FT NON TER 5 5
SQ SEQUENCE 5 AA; 614 MW; 7769C9C9C8100000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FF 2
DB 2 FF 3

RESULT 5
RE11_LITRU STANDARD; PRT; 5 AA.
AC P82070;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Rubellidin 1.1.
OS Litoria rubella (Desert tree frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=104895;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RC TISSUE=Skin secretion;
RA Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
RA Tyler M.J., Wallace J.C.;
RT "The structure of new peptides from the Australian red tree frog
RT 'Litoria rubella'. The skin peptide profile as a probe for the study
RT of evolutionary trends of amphibians."
RL Aust. J. Chem. 49:955-963 (1996).
CC -1- FUNCTION: Shows neither neuropeptide activity nor antibiotic
CC activity.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
CC -1- MASS SPECTROMETRY: MW=598; METHOD=PAB; RANGE=1-5; NOTE=Ref.1.
KW Amphibian defense peptide; Direct protein sequencing.
SQ SEQUENCE 5 AA; 598 MW; 6DD9C9C8A2A00000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FF 2
DB 1 FF 3

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Db 3 FF 4

Query Match 44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 6

RE21 LITRU
ID RE21 LITRU STANDARD; PRT; 5 AA.
AC P82071;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Rubellidin 2.1.
OS Litoria rubella (Desert tree frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=104895;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RC TISSUE=Skin secretion;
RA Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
RA Tyler M.J., Wallace J.C.;
RT "The structure of new peptides from the Australian red tree frog
'Litoria rubella'. The skin peptide profile as a probe for the study
of evolutionary trends of amphibians.";
RL Aust. J. Chem. 49:955-963(1996).
CC -1- FUNCTION: Shows neither neuropeptide activity nor antibiotic
activity.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
CC -1- MASS SPECTROMETRY: MW=626; METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
KW Amphibian defense peptide; Direct protein sequencing.
SQ SEQUENCE 5 AA; 626 MW; 6DD9C9CB10300000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FF 2
Db 3 FF 4

RESULT 7

RE31 LITRU
ID RE31 LITRU STANDARD; PRT; 5 AA.
AC P82072;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Rubellidin 3.1.
OS Litoria rubella (Desert tree frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=104895;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RC TISSUE=Skin secretion;
RA Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
RA Tyler M.J., Wallace J.C.;
RT "The structure of new peptides from the Australian red tree frog
'Litoria rubella'. The skin peptide profile as a probe for the study
of evolutionary trends of amphibians.";
RL Aust. J. Chem. 49:955-963(1996).
CC -1- FUNCTION: Shows neither neuropeptide activity nor antibiotic
activity.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
CC -1- MASS SPECTROMETRY: MW=655; METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
KW Anidation; Amphibian defense peptide; Direct protein sequencing.
PT MOD RES 5
SQ SEQUENCE 5 AA; 656 MW; 71A9C9CB10300000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FF 2
Db 3 FF 4

RESULT 8

RE32 LITRU
ID RE32 LITRU STANDARD; PRT; 5 AA.
AC P82073;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Rubellidin 3.2.
OS Litoria rubella (Desert tree frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=104895;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RA Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
RT "Peptides from the skin glands of the Australian buzzing tree frog
Litoria electrica. Comparison with the skin peptides from Litoria
rubella.";
RL Aust. J. Chem. 52:639-645(1999).
CC -1- FUNCTION: Shows neither neuropeptide activity nor antibiotic
activity.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
KW Amphibian defense peptide; Direct protein sequencing.
SQ SEQUENCE 5 AA; 570 MW; 71A9C9C862A00000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FF 2
Db 3 FF 4

RESULT 9

UC22 MAIZE
ID UC22 MAIZE STANDARD; PRT; 5 AA.
AC P80628;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Unknown protein from 2D-PAGE of etiolated coleoptile (Spot 474)
(fragment).
DE Zea mays (Maize).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC PACCAD clade; Panicoideae; Andropogoneae; Zea.
OX NCBI_TaxID=4577;
RN [1]
RP SEQUENCE.
RC TISSUE=Coleoptile;
RA Tounet P., Riccardi F., Morin C., Damerval C., Huet J.-C.,
RA Pernollet J.-C., Zivy M., de Vienne D.;
RT "The maize two dimensional gel protein database: towards an integrated
genome analysis program.";
RL Theor. Appl. Genet. 93:997-1005(1996).
CC -1- MISCCELLANEOUS: On the 2D-gel the determined pI of this unknown
protein is: 6.1, its MW is: 30.4 kDa.
DR Maize-2DPAGE; P80628; COLSOPTILE.
DR MaizeDB; 123954; -.
KW Direct protein sequencing.

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FT NON_TER 1 1
FT NON_TER 5 5
SQ SEQUENCE 5 AA; 654 MW; 72CB19C9C0300000 CRC64;

Query Match 44.4%; Score 12; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FF 2
DB 2 FF 3

RESULT 10
TPIS CANFA STANDARD; PRT; 5 AA.
AC P54714;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Triosephosphate isomerase (EC 5.3.1.1) (TIM) (Triose-phosphate
DE isomerase) (Fragment).
GN Name=TPIS;
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
OX NCBI_TaxID=9615;
RN [1]
RP SEQUENCE.
RC TISSUE=Heart;
RX MEDLINE=98163340; PubMed=9504812;
RA Dunn M.J., Corbett J.M., Wheeler C.H.;
RT "HSC-2DPAGE and the two-dimensional gel electrophoresis database of
RT dog heart proteins.";
RL Electrophoresis 18:2795-2802 (1997).
CC -1- CATALYTIC ACTIVITY: D-glyceraldehyde 3-phosphate = glycerone
CC phosphate.
CC -1- PATHWAY: Plays an important role in several metabolic pathways.
CC -1- SUBUNIT: Homodimer (By similarity).
CC -1- SIMILARITY: Belongs to the triosephosphate isomerase family.
DR HSC-2DPAGE; P54714; DOG.
DR InterPro; IPR000652; Triophos_ismrse.
DR PROSITE; PS00171; TIM; PARTIAL.
DR Direct protein sequencing; Fatty acid biosynthesis; Gluconeogenesis;
KW Glycolysis; Isomerase; Pentose shunt.
FT NON_TER 1 1
FT NON_TER 5 5
SQ SEQUENCE 5 AA; 550 MW; 64444862C9A00000 CRC64;

Query Match 40.7%; Score 11; DB 1; Length 5;
Best Local Similarity 66.7%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FFG 3
DB 1 FVG 3

RESULT 11
FYRI_ATEL STANDARD; PRT; 4 AA.
AC P58706;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 03-JUL-2004 (Rel. 44, Last annotation update)
DE Antho-Riamide I [Contains: Antho-Riamide II].
OS Anthopleura elegantissima (Sea anemone).
OC Eukaryota; Metazoa; Cnidaria; Anthozoa; Zoantharia; Actinaria;
OC Nymphaeae; Actiniidae; Anthopleura.
OX NCBI_TaxID=6110;
RN [1]
RP SEQUENCE.
RX MEDLINE=92270459; PubMed=1821096; DOI=10.1016/0196-9781(91)90190-2;

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RA Nothacker H.-P., Rinehart K.L. Jr., McFarlane I.D.,
RA Grimmelikhuijzen C.J.P.;
RT "Isolation of two novel neuropeptides from sea anemones: the unusual,
RT biologically active L-3-phenyllactyl-Tyr-Arg-Ile-NH2 and its des-
RT phenyllactyl fragment Tyr-Arg-Ile-NH2.";
RL Peptides 12:1165-1173 (1991).
RN [2]
RP FUNCTION.
RX MEDLINE=93391436; PubMed=8397415;
RA McFarlane I.D., Hudman D., Nothacker H.-P., Grimmelikhuijzen C.J.P.;
RT "The expansion behaviour of sea anemones may be coordinated by two
RT inhibitory neuropeptides, Antho-Riamide and Antho-Riamide.";
RL Proc. R. Soc. Lond., B, Biol. Sci. 253:183-188 (1993).
CC -1- FUNCTION: Inhibits spontaneous contractions in several muscle
CC groups. May be involved in the expansion phase of feeding
CC behaviour in sea anemones.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Neuron specific.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT CHAIN 1 4 Antho-Riamide I.
FT CHAIN 2 4 Antho-Riamide II.
FT MOD_RES 1 1 3-phenyllactic acid.
FT MOD_RES 4 4 Isoleucine amide.
SQ SEQUENCE 4 AA; 598 MW; 60441B59A0000000 CRC64;

Query Match 33.3%; Score 9; DB 1; Length 4;
Best Local Similarity 50.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FF 2
DB 1 FY 2

RESULT 12
ILME_SEPOF STANDARD; PRT; 4 AA.
AC P83568;
DT 29-MAR-2004 (Rel. 43, Created)
DT 29-MAR-2004 (Rel. 43, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Pheromone peptide ILME.
OS Sepia officinalis (Common cuttlefish).
OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
OC Decapodiformes; Sepioidea; Sepiidae; Sepia.
OX NCBI_TaxID=6610;
RN [1]
RP SEQUENCE, SUBCELLULAR LOCATION, TISSUE SPECIFICITY, AND MASS
RP SPECTROMETRY.
RC TISSUE=Egg;
RX MEDLINE=20403899; PubMed=10944467; DOI=10.1006/bbrc.2000.3286;
RA Zatylny C., Gagnon J., Boucaud-Camou E., Henry J.;
RT "ILME: a waterborne pheromonal peptide released by the eggs of Sepia
RT officinalis.";
RL Biochem. Biophys. Res. Commun. 275:217-222 (2000).
RN [2]
RP SEQUENCE.
RC TISSUE=Egg;
RX MEDLINE=22197108; PubMed=12207899; DOI=10.1016/S0006-291X(02)02036-3;
RA Zatylny C., Marvin L., Gagnon J., Henry J.;
RT "Fertilization in Sepia officinalis: the first mollusk sperm-
RT attracting peptide.";
RL Biochem. Biophys. Res. Commun. 296:1186-1193 (2002).
CC -1- FUNCTION: Has myotropic activity targeting the genital tract.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Follicle, fully grown oocyte and egg (EC2).
CC -1- MASS SPECTROMETRY: MW=505.4; METHOD=MALDI; RANGE=1-4; NOTE=Ref.1.
KW Direct protein sequencing; Pheromone.
SQ SEQUENCE 4 AA; 505 MW; 6B16972030000000 CRC64;

Query Match 33.3%; Score 9; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LM 5
|
|
Db 2 LM 3

RESULT 13

UF01_MOUSE STANDARD; PRT; 5 AA.
ID AC P38639;
DT 01-OCT-1994 (Rel. 30, Created)
DT 01-OCT-1994 (Rel. 30, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Unknown protein from 2D-PAGE of fibroblasts (P19) (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE.
RC TISSUE=Fibroblast;
RX MEDLINE=9500907; PubMed=7523108;
RA Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;
RT "Separation and sequencing of familial and novel murine proteins using
RT preparative two-dimensional gel electrophoresis."
RL Electrophoresis 15:735-745(1994).
CC -1- MISCELLANEOUS: On the 2D-gel the determined pI of this unknown
CC protein is: 6.6, its MW is: 19 kDa.
KW Direct protein sequencing.
FT NON TER 5
SQ SEQUENCE 5 AA; 717 MW; 7364087043100000 CRC64;

Query Match 25.9%; Score 7; DB 1; Length 5;
Best Local Similarity 33.3%; Pred. No. 1.6e+06;
Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PFG 3
:
|
Db 1 WIG 3

RESULT 14

GWA_SEPOF STANDARD; PRT; 2 AA.
ID AC P83570;
DT 29-MAR-2004 (Rel. 43, Created)
DT 29-MAR-2004 (Rel. 43, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Neuropeptide Gwa.
OS Sepia officinalis (Common cuttlefish).
OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
OC Decapodiformes; Sepioidea; Sepiidae; Sepia.
OX NCBI_TaxID=6610;
RN [1]
RP SEQUENCE, FUNCTION, MASS SPECTROMETRY, AND AMIDATION.
RC TISSUE=Optic lobe;
RX MEDLINE=98100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;
RA Henry J., Favrel P., Boucaud-Camou E.;
RT "Isolation and identification of a novel Ala-Pro-Gly-Trp-amide-related
RT peptide inhibiting the motility of the mature oviduct in the
RT cuttlefish, Sepia officinalis."
RL Peptides 18:1469-1474(1997).
CC -1- FUNCTION: Regulatory neuropeptide with myotropic activity
CC targeting the distal oviduct. Inhibits the motility of the oviduct
CC by decreasing tonus, frequency and amplitude of contractions.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- MASS SPECTROMETRY: MW=259.9; METHOD=MALDI; RANGE=1-2; NOTE=Ref.1.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD RES 2
SQ SEQUENCE 2 AA; 261 MW; 7378100000000000 CRC64;

Query Match 22.2%; Score 6; DB 1; Length 2;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;

RESULT 15

GRWM_HUMAN STANDARD; PRT; 3 AA.
ID AC P01157;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Growth-modulating peptide.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE.
RX MEDLINE=77162369; PubMed=858356;
RA Schlesinger D.H., Pickart L., Thaler M.M.;
RT "Growth-modulating serum tripeptide is glycyl-histidyl-lysine."
RL Experientia 33:324-325(1977).
CC -1- MISCELLANEOUS: This serum tripeptide has been found to stimulate
CC growth of some cell types and to inhibit other types in vitro.
DR GO; GO:0001558; P:regulation of cell growth; NAS.
KW Direct protein sequencing.
SQ SEQUENCE 3 AA; 340 MW; 6331E81000000000 CRC64;

Query Match 22.2%; Score 6; DB 1; Length 3;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 G 3
|
Db 1 G 1

Search completed: March 23, 2005, 14:49:56
Job time : 117.5 secs

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OM protein - protein search, using sw model

Run on: March 23, 2005, 15:19:16 ; Search time 68 Seconds
(without alignments)
28.438 Million cell updates/sec

Title: SRQ1

Perfect score: 27

Sequence: 1 ffglm 5

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 45841

Minimum DB seq length: 0

Maximum DB seq length: 5

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: A Geneseqp16Dec04:*
- 2: Geneseqp1980s:*
- 3: Geneseqp1990s:*
- 4: Geneseqp2000s:*
- 5: Geneseqp2001s:*
- 6: Geneseqp2002s:*
- 7: Geneseqp2003as:*
- 8: Geneseqp2003bs:*
- 9: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27	100.0	5	2 AAR33009	Aar33009 Alpha-sub
2	27	100.0	5	2 AAR33008	Aar33008 Alpha-sub
3	27	100.0	5	2 AAR33007	Aar33007 Alpha-sub
4	27	100.0	5	2 AAR33010	Aar33010 Alpha-sub
5	27	100.0	5	2 AAR54549	Aar54549 Cholecyst
6	27	100.0	5	2 AAR54551	Aar54551 Cholecyst
7	27	100.0	5	2 AAR54550	Aar54550 Cholecyst
8	27	100.0	5	2 AAR54548	Aar54548 Cholecyst
9	27	100.0	5	2 AAW11687	Aaw11687 Tetrapt
10	27	100.0	5	2 AAW99643	Aaw99643 Substance
11	27	100.0	5	2 AAY50325	Aay50325 Neutroph
12	27	100.0	5	2 AAW92660	Aaw92660 Human/tac
13	27	100.0	5	3 AAB23025	Aab23025 Human/rat
14	27	100.0	5	3 AAY67576	Aay67576 P antag
15	27	100.0	5	4 AAB91428	Aab91428 Tachykini
16	27	100.0	5	5 ABB10088	Abb10088 Substance
17	27	100.0	5	5 AAW77845	Aaw77845 Tachykini
18	27	100.0	5	7 ADE94203	Ade94203 High acti
19	27	100.0	5	7 ADF92530	Adf92530 Substance
20	27	100.0	5	8 ADM95078	Adm95078 Mammalian
21	27	100.0	5	8 ADR43771	Adr43771 Human mag
22	24	88.9	5	2 AAW92702	Aaw92702 Human tac
23	24	88.9	5	5 ABB10089	Abb10089 Substance
24	24	88.9	5	7 ADE94204	Ade94204 High acti
25	22	81.5	5	2 AAR27697	Aar27697 Cyclic ta

26	22	81.5	5	2 AAW92703	Aaw92703 Human tac
27	22	81.5	5	2 AAW92701	Aaw92701 Human tac
28	21	77.8	4	2 AAW411683	Aaw411683 Peptide u
29	21	77.8	4	2 AAY31075	Aay31075 Non-cross
30	21	77.8	4	3 AAB23026	Aab23026 Human/rat
31	21	77.8	4	3 AAY67577	Aay67577 P antag
32	21	77.8	4	4 AAB91447	Aab91447 Tachykini
33	21	77.8	4	5 ABB10091	Abb10091 Substance
34	21	77.8	4	5 AAU77846	Aau77846 Tachykini
35	21	77.8	4	7 ADE94198	Ade94198 High acti
36	21	77.8	4	8 ADR43772	Adr43772 Human mag
37	21	77.8	5	4 AAB91389	Aab91389 Tachykini
38	21	77.8	5	5 ABB10090	Abb10090 Substance
39	21	77.8	5	6 AAE35975	Aae35975 Zea may
40	21	77.8	5	7 ADE94205	Ade94205 High acti
41	21	77.8	5	8 ADR03603	Adr03603 E. coli m
42	20	74.1	5	2 AAW80134	Aaw80134 COOH-term
43	20	74.1	5	2 AAR41695	Aar41695 GHRP-6 (G
44	20	74.1	5	2 AAR47524	Aar47524 GHRP-6 an
45	20	74.1	5	2 AAW13221	Aaw13221 Growth ho

ALIGNMENTS

RESULT 1

AAR33009

ID AAR33009 standard; peptide; 5 AA.

AC AAR33009;

XX AAR33009;

DT 25-MAR-2003 (revised)

DT 02-APR-1993 (first entry)

XX AAR33009;

DB Alpha-substituted short peptide.

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

XX AAR33009;

CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
 CC peptide, etc.), the modified peptides are variously useful for treating
 CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
 CC addictive drug withdrawal symptoms, hypertension, heart failure,
 CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
 CC asthma, bladder dysfunction, psychosis and arthritis; and as
 CC contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
 CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 25-MAR-2003 to correct PI field.)
 XX Sequence 5 AA;
 SQ

Query Match 100.0%; Score 27; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
 DB 1 FFGLM 5

RESULT 2
 AAR33008
 ID AAR33008 standard; peptide; 5 AA.

XX AAR33008;
 XX
 DT 25-MAR-2003 (revised)
 DT 02-APR-1993 (first entry)
 XX
 DE Alpha-substituted short peptide.
 XX
 CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
 KW improved bioavailability.
 XX Synthetic.

XX Key Location/Qualifiers
 FT Modified-site 2 /note= "alpha-Me-Phe"
 FT Modified-site 5 /note= "Met-NH2"
 FT

XX WO9219254-A1.
 XX 12-NOV-1992.
 XX 15-APR-1992; 92WO-US003119.
 XX 24-APR-1991; 91US-00690755.
 XX 20-MAR-1992; 92US-00852086.

XX (WARN) WARNER LAMBERT CO.

XX Horwell DC, Hughes J, Richardson RS, Howson W;
 XX WPI; 1992-398522/48.

XX New alpha-substd. polypeptide are e.g. selective receptor ligands - for
 FT treating inflammation, pain, stroke, ulcers, hypertension, heart failure,
 PT depression, cancer, asthma, psychosis, arthritis, etc.

XX Claim 3; Page 41; 46pp; English.

XX The peptide is a specifically claimed example of a group of generically
 CC claimed mono-, di-, tri-, tetra- and penta-peptides which include a
 CC substituent on an alpha-C atom in the chain. Such substitution may modify
 CC the bioavailability, stability or absorbability of the peptide and hence
 CC may improve the activity of the peptide as a drug. Depending on the
 CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
 CC peptide, etc.), the modified peptides are variously useful for treating
 CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
 CC addictive drug withdrawal symptoms, hypertension, heart failure,

CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
 CC asthma, bladder dysfunction, psychosis and arthritis; and as
 CC contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
 CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 25-MAR-2003 to correct PI field.)
 XX Sequence 5 AA;
 SQ

Query Match 100.0%; Score 27; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
 DB 1 FFGLM 5

RESULT 3
 AAR33007
 ID AAR33007 standard; peptide; 5 AA.

XX AAR33007;
 XX
 DT 25-MAR-2003 (revised)
 DT 02-APR-1993 (first entry)
 XX
 DE Alpha-substituted short peptide.
 XX
 CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
 KW improved bioavailability.
 XX Synthetic.

XX Key Location/Qualifiers
 FT Modified-site 1 /note= "alpha-Me-Phe"
 FT Modified-site 5 /note= "Met-NH2"
 FT

XX WO9219254-A1.
 XX 12-NOV-1992.
 XX 15-APR-1992; 92WO-US003119.
 XX 24-APR-1991; 91US-00690755.
 XX 20-MAR-1992; 92US-00852086.

XX (WARN) WARNER LAMBERT CO.

XX Horwell DC, Hughes J, Richardson RS, Howson W;
 XX WPI; 1992-398522/48.

XX New alpha-substd. polypeptide are e.g. selective receptor ligands - for
 FT treating inflammation, pain, stroke, ulcers, hypertension, heart failure,
 PT depression, cancer, asthma, psychosis, arthritis, etc.

XX Claim 3; Page 41; 46pp; English.

XX The peptide is a specifically claimed example of a group of generically
 CC claimed mono-, di-, tri-, tetra- and penta-peptides which include a
 CC substituent on an alpha-C atom in the chain. Such substitution may modify
 CC the bioavailability, stability or absorbability of the peptide and hence
 CC may improve the activity of the peptide as a drug. Depending on the
 CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
 CC peptide, etc.), the modified peptides are variously useful for treating
 CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
 CC addictive drug withdrawal symptoms, hypertension, heart failure,
 CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
 CC asthma, bladder dysfunction, psychosis and arthritis; and as
 CC contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
 CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR

CC field.) (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 5 AA;

Query Match 100.0%; Score 27; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 FFGLM 5
DB 1 FFGLM 5

RESULT 4
AAR33010
ID AAR33010 standard; peptide; 5 AA.

XX AAR33010;

XX 25-MAR-2003 (revised)

DT 02-APR-1993 (first entry)

XX Alpha-substituted short peptide.

XX CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
KW improved bioavailability.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 5 /note= "alpha-Me-Met-NH2"

XX WO9219254-A1.

XX 12-NOV-1992.

XX 15-APR-1992; 92WO-US003119.

XX 24-APR-1991; 91US-00690755.

XX 20-MAR-1992; 92US-00852086.

XX (WARN) WARNER LAMBERT CO.

XX Horwell DC, Hughes J, Richardson RS, Howson W;

XX WPI; 1992-398522/48.

XX New alpha-subst. polypeptide are e.g. selective receptor ligands - for
PT treating inflammation, pain, stroke, ulcers, hypertension, heart failure,
PT depression, cancer, asthma, psychosis, arthritis, etc.

XX Claim 3; Page 41; 46pp; English.

XX The peptide is a specifically claimed example of a group of generically
CC claimed mono-, di-, tri-, tetra- and penta-peptides which include a
CC substituent on an alpha-C atom in the chain. Such substitution may modify
CC the bioavailability, stability or absorbability of the peptide and hence
CC may improve the activity of the peptide as a drug. Depending on the
CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
CC peptide, etc.), the modified peptides are variously useful for treating
CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
CC addictive drug withdrawal symptoms, hypertension, heart failure,
CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
CC asthma, bladder dysfunction, psychosis and arthritis; and as
CC contraceptives. (Updated on 25-MAR-2003 to correct PI field.) (Updated on
CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR
CC field.) (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 5 AA;

Query Match 100.0%; Score 27; DB 2; Length 5;

Best Local Similarity 100.0%; Pred. No. 1.8e+06;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 FFGLM 5

DB 1 FFGLM 5

RESULT 5

AAR54549
ID AAR54549 standard; peptide; 5 AA.

XX AAR54549;

XX 25-MAR-2003 (revised)

DT 14-DEC-1994 (first entry)

XX Cholecystokinin analogue peptide #42.

XX Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
KW heart failure; cognition; memory enhancement; spasticity; depression;
KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 2 /label= MePhe

FT Modified-site 5 /note= "Amidated C-terminal"

XX WO9409031-A1.

XX 28-APR-1994.

XX 14-OCT-1993; 93WO-US009809.

XX 19-OCT-1992; 92US-00963169.

XX 08-OCT-1993; 93US-00131693.

XX (WARN) WARNER LAMBERT CO.

XX Horwell DC, Howson W, Hugues J, Richardson RS;

XX WPI; 1994-151243/18.

XX New cholecystokinin analogues - useful e.g. in treatment of pain,
PT obesity, stroke, anxiety, and gastrointestinal ulcers.

XX Claim 3; Page 66; 73pp; English.

XX The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues
CC of cholecystokinin (CCK) which can be used to treat obesity, anxiety,
CC gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart
CC failure, cognition, memory enhancement, spasticity, depression, diabetes,
CC cancers, asthma, bladder dysfunction, psychosis, arthritis and in the
CC treatment of substance withdrawal. (Updated on 25-MAR-2003 to correct PN
CC field.)

XX Sequence 5 AA;

Query Match 100.0%; Score 27; DB 2; Length 5;

Best Local Similarity 100.0%; Pred. No. 1.8e+06;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 FFGLM 5

DB 1 FFGLM 5

RESULT 6

AAR54551
ID AAR54551 standard; peptide; 5 AA.

```

XX AC AAR54551;
XX DT 25-MAR-2003 (revised)
XX DT 14-DEC-1994 (first entry)
XX DE Cholecystokinin analogue peptide #44.
XX KW Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
XX KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
XX KW heart failure; cognition; memory enhancement; spasticity; depression;
XX KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT Modified-site 5
XX FT Modified-site 5 /label= MeMet
XX FT /note= "Amidated C-terminal"
XX PN WO9409031-A1.
XX PD 28-APR-1994.
XX PF 14-OCT-1993; 93WO-US009809.
XX PR 19-OCT-1992; 92US-00963169.
XX PR 08-OCT-1993; 93US-00131693.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Horwell DC, Howson W, Hugues J, Richardson RS;
XX WPI; 1994-151243/18.
XX DR New cholecystokinin analogues - useful e.g. in treatment of pain,
XX PT obesity, stroke, anxiety, and gastrointestinal ulcers.
XX PS Claim 3; Page 66; 73pp; English.
XX CC The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues
XX CC of cholecystokinin (CCK) which can be used to treat obesity, anxiety,
XX CC gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart
XX CC failure, cognition, memory enhancement, spasticity, depression, diabetes,
XX CC cancers, asthma, bladder dysfunction, psychosis, arthritis and in the
XX CC treatment of substance withdrawal. (Updated on 25-MAR-2003 to correct PN
XX CC field.)
XX SQ Sequence 5 AA;

Query Match 100.0%; Score 27; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
Db 1 FFGLM 5

RESULT 7
AAR54550
ID AAR54550 standard; peptide; 5 AA.
XX AC AAR54550;
XX DT 25-MAR-2003 (revised)
XX DT 14-DEC-1994 (first entry)
XX DE Cholecystokinin analogue peptide #43.
XX KW Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
XX KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
XX KW heart failure; cognition; memory enhancement; spasticity; depression;

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```

KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT Modified-site 3 /label= MeLeu
XX FT Modified-site 5
XX FT /note= "Amidated C-terminal"
XX PN WO9409031-A1.
XX PD 28-APR-1994.
XX PF 14-OCT-1993; 93WO-US009809.
XX PR 19-OCT-1992; 92US-00963169.
XX PR 08-OCT-1993; 93US-00131693.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Horwell DC, Howson W, Hugues J, Richardson RS;
XX WPI; 1994-151243/18.
XX DR New cholecystokinin analogues - useful e.g. in treatment of pain,
XX PT obesity, stroke, anxiety, and gastrointestinal ulcers.
XX PS Claim 3; Page 66; 73pp; English.
XX CC The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues
XX CC of cholecystokinin (CCK) which can be used to treat obesity, anxiety,
XX CC gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart
XX CC failure, cognition, memory enhancement, spasticity, depression, diabetes,
XX CC cancers, asthma, bladder dysfunction, psychosis, arthritis and in the
XX CC treatment of substance withdrawal. (Updated on 25-MAR-2003 to correct PN
XX CC field.)
XX SQ Sequence 5 AA;

Query Match 100.0%; Score 27; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
Db 1 FFGLM 5

RESULT 8
AAR54548
ID AAR54548 standard; peptide; 5 AA.
XX AC AAR54548;
XX DT 25-MAR-2003 (revised)
XX DT 14-DEC-1994 (first entry)
XX DE Cholecystokinin analogue peptide #41.
XX KW Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
XX KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
XX KW heart failure; cognition; memory enhancement; spasticity; depression;
XX KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT Modified-site 1 /label= Mephe
XX FT Modified-site 5
XX FT /note= "Amidated C-terminal"

```

PN W09409031-A1.
 XX 28-APR-1994.
 PD
 XX 14-OCT-1993; 93WO-US009809.
 PF
 XX 19-OCT-1992; 92US-00963169.
 PR 08-OCT-1993; 93US-00131693.
 XX
 PA (WARN) WARNER LAMBERT CO.
 XX
 XX Horwell DC, Howson W, Hugues J, Richardson RS;
 PI WPI; 1994-151243/18.
 XX
 DR New cholecystokinin analogues - useful e.g. in treatment of pain,
 XX obesity, stroke, anxiety, and gastrointestinal ulcers.
 PT
 XX Claim 3; Page 66; 73pp; English.
 PS
 XX The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues
 CC of cholecystokinin (CCK) which can be used to treat obesity, anxiety,
 CC gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart
 CC failure, cognition, memory enhancement, spasticity, depression, diabetes,
 CC cancers, asthma, bladder dysfunction, psychosis, arthritis and in the
 CC treatment of substance withdrawal. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX
 XX Sequence 5 AA;
 SQ
 Query Match 100.0%; Score 27; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FFGLM 5
 Db 1 FFGLM 5
 RESULT 9
 AAW41687
 ID AAW41687 standard; peptide; 5 AA.
 AC
 XX AAW41687;
 XX
 DT 09-JUN-1998 (first entry)
 DE Tetrapeptide #4.
 XX
 XX Ophthalmic drug; corneal disorder; ulcer; epithelial peeling; dry eye;
 KW keratitis; insulin like growth factor-I; IGF-I; eye drop.
 XX
 XX Synthetic.
 OS
 XX
 FH Key Location/Qualifiers
 FT Modified-site 5 /note= "C-terminal amide"
 FT
 XX W09749419-A1.
 PN
 XX 31-DEC-1997.
 PD
 XX 11-JUN-1997; 97WO-JP002015.
 XX
 XX 26-JUN-1996; 96JP-00165612.
 PR
 XX (SANT) SANTEN PHARM CO LTD.
 PA
 XX Nishida T, Nakamura M, Nakata K;
 PI WPI; 1998-076907/07.
 DR
 XX Ophthalmic drug composition containing tetra-peptide - is useful as

PT corneal disorder remedy for corneal ulcer, corneal epithelial peeling,
 FT dry eye, keratitis.
 XX
 PS Disclosure; Page 11; 19pp; Japanese.
 XX
 CC This sequence is shown in the specification. The invention relates to an
 CC ophthalmic drug composition which contains Phe-Gly-Leu-Met-NH2 or its
 CC medicinally acceptable salts as the active ingredient. It is used,
 CC together with insulin like growth factor-I (IGF-I), to treat corneal
 CC disorders such as corneal ulcer, corneal epithelial peeling, dry eye and
 CC keratitis. The dosage is 0.1-5000 (preferably 1-1000) mg/day of the
 CC active ingredient and 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The
 CC preferable form of the composition is eye drops
 XX
 XX Sequence 5 AA;
 SQ
 Query Match 100.0%; Score 27; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FFGLM 5
 Db 1 FFGLM 5
 RESULT 10
 AAW99643
 ID AAW99643 standard; peptide; 5 AA.
 XX
 XX AAW99643;
 AC
 XX 21-MAY-1999 (first entry)
 DT
 XX Substance P analogue peptide.
 DE
 XX
 XX Substance P; myoblast transfer therapy; pain relief; analgesic;
 KW behavioural abnormality; perceptive abnormality; opioid receptor;
 KW psychiatric condition; depression; chronic anxiety syndrome; paranoia;
 KW alcoholism; drug addiction; chronic pain; neuron.
 XX
 XX Homo sapiens.
 OS
 XX Synthetic.
 OS
 XX EP898967-A1.
 PN
 XX 03-MAR-1999.
 XX
 PD 07-APR-1998; 98EP-00201068.
 PF
 XX 11-AUG-1997; 97US-0055199P.
 PR
 XX (CELL-) CELL THERAPY RES FOUND.
 PA
 XX Law PK;
 PI
 XX WPI; 1999-144555/13.
 DR
 XX New composition for supplying peptide to opioid receptor - comprises
 FT myogenic cells containing heterologous DNA encoding peptide and carrier.
 PT
 XX Claim 8; Page 8; 11pp; English.
 PS
 XX A composition has been developed for supplying a peptide to an opioid
 CC receptor or that interferes with binding of substance P to its receptor.
 CC The composition comprises: (a) myogenic cells that contain heterologous
 CC DNA encoding the peptide to express the peptide; and (b) a
 CC pharmaceutically acceptable carrier. The composition is useful for
 CC relieving pain and for treating behavioural and perceptive abnormalities
 CC using myoblast transfer therapy. It is useful in a method for treating
 CC psychiatric conditions that involve abnormal perception e.g. depression,
 CC chronic anxiety syndromes, paranoia, alcoholism and drug addiction.
 CC chronic pain and other diseases in which opioid neurons and substance P
 CC sensitive neurons play a role. The composition provides a continuous,

CC long term supply of opioid peptides (long-term analgesia) which lasts for
 CC up to at least 6 years. The present sequence represents a specifically
 CC claimed substance P analogue
 CC
 XX
 SQ Sequence 5 AA;
 Query Match 100.0%; Score 27; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06; Indels 0; Gaps 0;
 Matches 5; Conservative 0; Mismatches 0;
 QY 1 PFGLM 5
 Db 1 PFGLM 5
 RESULT 11
 AAY50325
 ID AAY50325 standard; peptide; 5 AA.
 XX
 AC AAY50325;
 XX
 DT 12-JAN-2000 (first entry)
 XX
 DE Neutrophil-activating pancreatic derived peptide 125.
 XX
 KW Cell activation; pancreas; treatment; cardiovascular disease; trauma;
 KW inflammatory disease; autoimmune diseases; arthritis; diabetes; stroke;
 KW organ rejection; ischemia; Alzheimer's disease; myocardial infarction;
 KW haemorrhagic shock; diabetic retinopathy; venous insufficiency; angina;
 KW trauma; protease inhibitor; hypertension; sepsis.
 XX
 OS Unidentified.
 XX
 PN WO9946367-A2.
 XX
 PD 16-SEP-1999.
 XX
 PF 11-MAR-1999; 99WO-US005247.
 XX
 PR 11-MAR-1998; 98US-00038894.
 XX
 PA (CELL-) CELL ACTIVATION INC.
 PA (REGC) UNIV CALIFORNIA.
 PA (SCRI) SCRIPPS RES INST.
 XX
 PI Stoughton RB, Schmid-Schonbein GW, Hugli TE, Kistler E;
 XX
 DR WPI; 1999-580234/49.
 XX
 PT Use of cell activating compositions in developing products for diagnosis
 PT and treatment of e.g. cardiovascular, inflammatory, autoimmune or
 PT Alzheimer's disease, trauma, arthritis, organ rejection, diabetes, stroke
 PT or ischemia.
 XX
 PS Example 9; Page 184; 184pp; English.
 XX
 CC This invention describes a novel method for the use and preparation of
 CC cell activating compositions which involves preparing a cell activating
 CC composition comprising (a) homogenizing pancreatic tissue in buffer at
 CC about neutral or higher pH to produce a homogenate; (b) removing
 CC particulates from the homogenate; (c) optionally incubating the resulting
 CC homogenate, with particulates removed, with a protease; and (d)
 CC fractionating the homogenate and selecting fractions that exhibit cell
 CC activation activity. The methods can be used for improving treatment
 CC outcome or reducing risk of treatment of e.g. cardiovascular disease,
 CC inflammatory disease, trauma, autoimmune diseases, arthritis, organ
 CC rejection, diabetes and diabetic complications, stroke, ischemia,
 CC Alzheimer's disease, myocardial infarction, haemorrhagic shock, diabetic
 CC retinopathy, diabetes, venous insufficiency, unstable angina or trauma.
 CC They can be used in the veterinary treatment of a non-human subject.
 CC Protease inhibitors can be used to lower cell activation resulting from
 CC these diseases and deficiencies. The detection of an elevated level of
 CC hydrogen peroxide can be used to detect an inflammatory condition. An

CC elevated level of hydrogen peroxide in plasma or whole blood and in the
 CC presence of superoxide dismutase (SOD) indicates leukocyte up regulation,
 CC e.g. indicative of the onset of an acute cardiovascular disorders, such
 CC as disease onset or ischemic complications. An elevated level of hydrogen
 CC peroxide in plasma or whole blood and a low level in the presence of SOD
 CC is indicative of a chronic or immune compromised condition e.g.
 CC hypertension or sepsis. AAY50201-Y50334 represent peptides used in the
 CC method of the invention
 XX
 SQ Sequence 5 AA;

Query Match 100.0%; Score 27; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PFGLM 5
 Db 1 PFGLM 5

RESULT 12

AAW92660
 ID AAW92660 standard; peptide; 5 AA.

XX AC AAW92660;

XX DT 20-MAR-2003 (revised)
 XX DT 30-APR-1999 (first entry)

XX DE Human tachykinin agonist beta-amyloid peptide fragment #6.

XX KW Tachykinin agonist; beta-amyloid; inhibition; neurotoxin; treatment;
 KW Alzheimer's disease; Down's syndrome; amyloidosis; human;
 KW hereditary cerebral haemorrhage; non-inherited congophilic angiopathy.

XX OS Homo sapiens.

XX PN US5876948-A.

XX PD 02-MAR-1999.

XX PF 29-JUL-1991; 91US-00737371.

XX PR 27-JUL-1990; 90US-00559173.

XX PA (CHIL-) CHILDRENS MEDICAL CENT.

XX PI Yankner BA;

XX DR WPI; 1999-189630/16.

XX PT Screening for neurotoxin inhibitors - by testing compounds for their
 PT effect on beta-amyloid peptide neurotoxic effect on neuronal cells.

XX PS Disclosure; Col 13-14; 28pp; English.

XX This invention describes a method for screening compounds for inhibiting
 CC a neurotoxin. The method involves incubating tachykinin agonists with
 CC neuronal cells and a beta-amyloid peptide neurotoxin. The methods can be
 CC used for identifying compounds for treating diseases characterised by an
 CC undesirable build up of beta-amyloid protein, e.g. Alzheimer's disease,
 CC Down's syndrome, and the syndromes of hereditary cerebral haemorrhage
 CC with amyloidosis and non-inherited congophilic angiopathy with cerebral
 CC haemorrhage. AAW92655-W92731 are tachykinin agonists derived from human
 CC beta-amyloid peptide fragments. (Updated on 20-MAR-2003 to correct PF
 CC field.)

XX SQ Sequence 5 AA;

Query Match 100.0%; Score 27; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


```

QY      1 FFGLM 5
DB      1 FFGLM 5

RESULT 13
AAB23025
ID AAB23025 standard; peptide; 5 AA.
XX
AC AAB23025;
XX
XX 16-JAN-2001 (first entry)
XX
XX Human/rat tachykinin Substance P C-terminal pentapeptide.
XX
XX Substance P; tachykinin; human; rat; magnesium binding defect;
KW sodium sensitive essential hypertension; insulin resistance;
KW type 2 diabetes; antibody; immunoassay; quantification.
XX
OS Homo sapiens.
OS Rattus sp.
XX
XX Key Location/Qualifiers
FH Modified-site 5
FT /note= "C-terminal amide"
FT
XX WO200054053-A1.
XX
XX 14-SEP-2000.
XX
XX 09-MAR-2000; 2000WO-US003707.
XX
XX 10-MAR-1999; 99US-00265690.
XX (WELL/) WELLS I C.
XX
XX Wells IC;
XX
XX WPI; 2000-587457/55.
XX
XX Detecting magnesium binding defects associated with abnormal
PT physiological states such as sodium-sensitive essential hypertension and
PT type 2 insulin-resistant diabetes mellitus, comprises measuring a
PT specific pentapeptide in blood.
XX
XX Disclosure; Page 5; 21pp; English.
XX
XX The invention relates to a method for detecting magnesium binding
CC defects. The method comprises quantitating a tachykinin C-terminal
CC pentapeptide (e.g., AAB23025) and its degradation products (e.g.,
CC AAB23026) in blood using an antibody specific for the generalised
CC mammalian tachykinin C-terminal pentapeptide Phe-(Phe/Val)-Gly-Leu-Met-
CC NH2 (AAB23028). The method is useful for detecting cellular magnesium
CC binding defects which are associated with abnormal physiological states
CC such as sodium-sensitive essential hypertension and type 2 diabetes
CC mellitus. The present sequence represents the C-terminal 5 amino acids of
CC the tachykinin Substance P (AAB23027) from human and rat, which may be
CC assayed according to the method of the invention
XX
XX Sequence 5 AA;
XX
XX Query Match 100.0%; Score 27; DB 3; Length 5;
XX Best Local Similarity 100.0%; Pred. No. 1.8e+06;
XX Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY      1 FFGLM 5
DB      1 FFGLM 5

RESULT 14
AAY67576
ID AAY67576 standard; peptide; 5 AA.
XX
XX AAY67576;
XX
XX 19-MAY-2000 (first entry)
XX
XX P antagonist peptide #4.
XX
XX Pharmaceutical; veterinary; gonadotropin-releasing hormone; GnRH;
KW pore-forming agent; lecithin; stearin; P antagonist.
XX
XX Unidentified.
XX
XX Key Location/Qualifiers
FH Modified-site 5
FT /note= "C-terminal amide"
FT
XX WO200004897-A1.
XX
XX 03-FEB-2000.
XX
XX 20-JUL-1999; 99WO-AU000585.
XX
XX 20-JUL-1998; 98AU-00004730.
XX 20-JUL-1998; 98AU-00004731.
XX 13-MAY-1999; 99AU-00000324.
XX
XX (PEPT-) PEPTTECH LTD.
XX
XX Trigg TE, Walsh JD, Rathjen DA;
XX WPI; 2000-182528/16.
XX
XX Bioimplant formulation for sustained delivery of an active agent over 7
XX days to 2 years, comprises active agent, pore-forming agent and stearin.
XX
XX Claim 20; Page 21; 37pp; English.
XX
XX The invention provides a pharmaceutical and/or veterinary formulation
CC that comprises 2 -30% of active agents which include a gonadotropin-
CC releasing hormone (GnRH) agonist, 0.5 - 20% of a pore-forming agent which
CC is not lecithin, and the remainder stearin. The formulation is useful as
CC a sustained release implant which can deliver the active agent for a
CC period of 7 days to 2 years. Sequences AAY67573-578 represent P
CC antagonist peptides used in the composition
XX
XX Sequence 5 AA;
XX
XX Query Match 100.0%; Score 27; DB 3; Length 5;
XX Best Local Similarity 100.0%; Pred. No. 1.8e+06;
XX Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY      1 FFGLM 5
DB      1 FFGLM 5

RESULT 15
AAB91428
ID AAB91428 standard; peptide; 5 AA.
XX
XX AAB91428;
XX
XX 22-JUN-2001 (first entry)
XX
XX Tachykinins peptide SEQ ID NO:604.
XX
XX Protection; endogenous therapeutic peptide; peptidase; conjugation;
KW blood component; modification; succinimidy; maleimido group; amino;
KW hydroxyl; thiol; hormone; growth factor; neurotransmitter.
XX
XX Homo sapiens.
XX Synthetic.
XX

```

PN WO200069900-A2.
 XX
 PD 23-NOV-2000.
 XX
 PF 17-MAY-2000; 2000WO-US013576.
 XX
 PR 17-MAY-1999; 99US-0134406P.
 PR 10-SEP-1999; 99US-0153406P.
 PR 15-OCT-1999; 99US-0159783P.
 XX
 PA (CONJ-) CONJUCHEM INC.
 XX
 PI Bridon DP, Ezrin AM, Milner PG, Holmes DL, Thibaudeau K;
 XX
 DR WPI; 2001-112059/12.
 XX
 PT Modifying and attaching therapeutic peptides to albumin prevents
 PT peptidase degradation, useful for increasing length of in vivo activity.
 XX
 PS Disclosure; Page 397; 733pp; English.
 XX
 CC The present invention describes a modified therapeutic peptide (I)
 CC comprising a therapeutically active amino acid region (III) and a
 CC reactive group (II) (e.g. succinimidyl and maleimido groups) attached to
 CC bonds with amino/hydroxyl/thiol groups on blood components to form a
 CC peptidase stabilised therapeutic peptide composed of 3-50 amino acids.
 CC (I) are useful for modifying therapeutic peptides e.g. hormones, growth
 CC factors and neurotransmitters, to protect them from peptidase activity in
 CC vivo for the treatment of various disorders. Endogenous therapeutic
 CC peptides are not suitable as drug candidates as they require frequent
 CC administration due to rapid degradation by peptidases in the body.
 CC Modifying and attaching therapeutic peptides to albumin prevents or
 CC reduces the action of peptidases to increase length of activity (half
 CC life) and specificity as bonding to large molecules decreases
 CC intracellular uptake and interference with physiological processes.
 CC AAB90829 to AAB92441 represent peptides which can be used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 5 AA;
 Query Match 100.0%; Score 27; DB 4; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 PFGLM 5
 Db |||||
 1 PFGLM 5
 RESULT 16
 ABB10088
 ID ABB10088 standard; peptide; 5 AA.
 XX
 AC ABB10088;
 XX
 DT 26-JUL-2002 (first entry)
 XX
 DE Substance P analog used in wound healing treatment#11.
 XX
 KW Wound healing; insulin-like growth factor-I; tear; abrasion; skin ulcer;
 KW surgical incision; burn.
 XX
 OS Unidentified.
 XX
 PN WO200213853-A1.
 XX
 FD 21-FEB-2002.
 XX
 PF 10-AUG-2001; 2001WO-JP006933.
 XX
 PR 10-AUG-2000; 2000JP-00242489.
 PR 28-NOV-2000; 2000JP-00361388.

XX (SANT) SANTEN PHARM CO LTD.
 PA (NISH/) NISHIDA T.
 XX
 PI Nishida T, Nakata K, Nakamura M;
 XX
 DR WPI; 2002-269153/31.
 XX
 PT Skin wound healing promoters or skin epidermal extension promoters
 PT containing substance P analogs and insulin-like growth factor-I for
 PT treating wounds like tear, abrasion, surgical incision, skin ulcers or
 PT burns.
 XX
 PS Disclosure; Page 4; 20pp; Japanese.
 XX
 CC The invention relates to skin wound healing promoters, containing
 CC substance P analogs or their pharmaceutically-acceptable salts, and
 CC insulin-like growth factor-I as the active ingredient. The promoters are
 CC for treating wounds like tears, abrasions, surgical incisions, or skin
 CC ulcers and burns. The current sequence represents a substance P analog
 CC for use in wound healing treatment
 XX
 SQ Sequence 5 AA;
 Query Match 100.0%; Score 27; DB 5; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 PFGLM 5
 Db |||||
 1 PFGLM 5
 RESULT 17
 AAU77845
 ID AAU77845 standard; peptide; 5 AA.
 XX
 AC AAU77845;
 XX
 DT 05-JUN-2002 (first entry)
 XX
 DE Tachykinin N-terminal pentapeptide.
 XX
 KW Tachykinin; substance P; hypertension; hypotensive; antidiabetic;
 KW gynaecological; salt-insensitive hypertension; magnesium binding;
 KW insulin resistance; type 2 diabetes mellitus; pre-eclampsia; eclampsia.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 5..5
 FT /note= "C terminal-amide"
 XX
 PN WO200211714-A2.
 XX
 PD 14-FEB-2002.
 XX
 PF 09-AUG-2001; 2001WO-US024909.
 XX
 PR 09-AUG-2000; 2000US-00635266.
 XX
 PA (MAGN-) MAGNESIUM DIAGNOSTICS INC.
 XX
 PI Wells IC;
 XX
 DR WPI; 2002-280663/32.
 XX
 PT New mono-peptides derived from butadienes, ethylenes and propanes are
 PT magnesium binding defect antagonists, useful in the treatment of e.g.
 PT hypertension, insulin resistance of type 2 diabetes mellitus and
 PT eclampsia.
 XX
 PS Disclosure; Page 2; 38pp; English.

XX This invention relates to novel therapeutic compounds and methods used
 CC for treating mammals with disorders such as salt-insensitive
 CC hypertension. The mono-peptide compounds of the invention are derived from
 CC butadienes, ethylenes and propanes. The compounds of the invention are
 CC used to correct a defect in magnesium binding within the plasma membranes
 CC of somatic cells which results in a decrease in the intracellular
 CC concentration of magnesium ions. These compounds may be used in the
 CC treatment of a mammal affected with magnesium binding defect, salt-
 CC sensitive (particularly hypertension), insulin resistance of type 2
 CC diabetes mellitus and pre-eclampsia/eclampsia. The compounds of the
 CC invention have an advantage over prior art compounds in that these
 CC compounds are biologically stable. The present sequence represents the a
 CC pentapeptide from the C-terminal sequence of tachykinin known as
 CC substance P, this peptide is sufficient to correct the magnesium binding
 CC defect responsible for causing hypertension
 XX
 SQ Sequence 5 AA;

Query Match 100.0%; Score 27; DB 5; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PFGLM 5
 |||||
 Db 1 PFGLM 5

RESULT 18
 ADE94203
 ID ADE94203 standard; peptide; 5 AA.

XX ADE94203;

DT 12-FEB-2004 (first entry)

DE High activity minimal IGF-1-derived peptide fragment #15.

XX ophthalmological; dermatological; vulnery; insulin growth factor 1;
 KW IGF-1; ophthalmology; dermatology; keratic injury; wound healing; skin;
 KW corneal ulcer; exfoliation of corneal epithelium; keratitis; dry eye;
 KW scratch; surgical cutting; skin ulcer; burns.

OS Homo sapiens.

XX Key Location/Qualifiers

FT Misc-difference 5 /note= "amidated C-terminus"

PN WO2003048192-A1.

XX 12-JUN-2003.

PF 03-DEC-2002; 2002WO-JP012632.

PR 03-DEC-2001; 2001JP-00368103.

XX (SANT) SANTEN PHARM CO LTD.

PA (NISH/) NISHIDA T.

PI Nishida T, Inui M, Nakamura M;

XX WPI; 2003-505280/47.

XX Novel peptides based on minimum activity expression units of insulin-like
 PT growth factor-1, applicable in remedies in ophthalmology and dermatology
 PT for treating keratic injury and promoting wound healing in skin.

XX Disclosure; Page 7; 25pp; Japanese.

XX The invention relates to the determination of the smallest peptide
 CC fragment of insulin growth factor 1 (IGF-1) with the highest activity for
 CC use in ophthalmology and dermatology. The peptides are applicable in

CC remedies in ophthalmology and dermatology for treating keratic injury and
 CC promoting wound healing in the skin. The keratic injury is particularly
 CC corneal ulcer, exfoliation of corneal epithelium, keratitis or dry eye.
 CC The skin wound can be scratches, surgical cutting, skin ulcer, or burns.
 CC This sequence represents one of the peptides of the invention with IGF-1
 CC activity.

SQ Sequence 5 AA;

Query Match 100.0%; Score 27; DB 7; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PFGLM 5
 |||||
 Db 1 PFGLM 5

RESULT 19

ADF92530
 ID ADF92530 standard; peptide; 5 AA.

XX ADF92530;

DT 26-FEB-2004 (first entry)

XX Substance P receptor agonist #3.

XX analgesic; Mu-opioid receptor agonist; substance P receptor agonist;
 KW chimeric hybrid; cyclic alkaloid moiety; mu opioid receptor; substance P;
 KW opioid tolerance; morphine; substance P; SP; neuro-peptide;
 KW blood-brain barrier; morphine 6-glucuronide; pain; drug abuse; analgesia;
 KW tolerance development; dependence formation;
 KW substance P receptor agonist.

OS Unidentified.

XX Key Location/Qualifiers

FT Modified-site 5 /note= "C-terminal amide"

PN US2003202981-A1.

XX 30-OCT-2003.

XX 26-APR-2002; 2002US-00134187.

PR 26-APR-2002; 2002US-00134187.

XX (KREA/) KREAM R M.

XX Kream RM;

XX WPI; 2003-900618/82.

XX Chimeric hybrid molecule useful for treating pain comprising cyclic
 PT alkaloid moiety which binds as agonist to mammalian mu opioid
 PT receptor and peptide moiety which binds as agonist to mammalian substance
 PT P.

XX Claim 7; Page 7; 11pp; English.

XX The invention describes a chimeric hybrid molecule (I) of a cyclic
 CC alkaloid moiety which binds as an agonist to a mammalian/human mu opioid
 CC receptor and a peptide moiety which binds as an agonist to a
 CC mammalian/human substance P. (I) is useful for inhibiting development of
 CC opioid tolerance by chemically combining a pharmacologically active form
 CC of substance P with morphine in (I). (I) is useful for transporting an
 CC active form of SP or neuro-peptide across the blood-brain barrier into the
 CC central nervous system using the active metabolite of morphine, morphine
 CC 6-glucuronide, contained in (I). (I) is useful for targeted drug delivery
 CC of reciprocally regulating analgesic chemicals across the blood-brain
 CC barrier into the central nervous system using (I). (I) is useful for

CC treating pain in a mammal and for treating drug abuse in a mammal by
 CC administering (I) in substitution for the drug on which the mammal became
 CC dependent and/or tolerant and thereafter adjusting the dosage as
 CC tolerance and/or dependence is modulated. (I) induces analgesia in a
 CC mammal with tolerance development markedly less than that of morphine.
 CC (I) efficiently modulates the activation of the MOR and to reduce or
 CC eliminate tolerance development and dependence formation. This is the
 CC amino acid sequence of a peptide that functions as a substance P receptor
 CC agonist.
 CC
 XX SQ Sequence 5 AA;
 CC
 CC Query Match 100.0%; Score 27; DB 7; Length 5;
 CC Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 CC Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC
 QY 1 FFGLM 5
 Db |||||
 1 FFGLM 5
 CC
 CC RESULT 20
 CC ADN95078
 CC ID ADN95078 standard; peptide; 5 AA.
 CC AC ADN95078;
 CC XX
 CC DT 26-AUG-2004 (first entry)
 CC XX
 CC DE Mammalian substance P peptide (amino acids 7-11).
 CC XX
 CC KW Opioid tolerance; substance P; morphine; cyclic alkaloid; mammalian;
 CC KW mu opioid receptor; acute pain; chronic pain; drug abuse;
 CC KW opioid analgesia; analgesic; antiaddictive.
 CC XX
 CC OS Mammalia.
 CC XX
 CC PH Key Location/Qualifiers
 CC FT Modified-site 5 /note= "C-terminal amide"
 CC FT
 CC PN US2004106636-A1.
 CC XX
 CC PD 03-JUN-2004.
 CC XX
 CC PF 17-OCT-2003; 2003US-00689741.
 CC XX
 CC PR 26-APR-2002; 2002US-00134187.
 CC XX
 CC PA (KREA/) KREAM R M.
 CC XX
 CC PI Kream RM;
 CC XX
 CC DR WPI; 2004-419489/39.
 CC XX
 CC PT Inhibiting development of opioids tolerance involves use of chimeric
 CC PT hybrid molecules containing an opioid moiety of chemically modified
 CC PT morphine.
 CC XX
 CC PS Disclosure; SEQ ID NO 3; 10pp; English.
 CC XX
 CC XX The present invention relates to a method of inhibiting the development
 CC of opioid tolerance. The method involves administering a chemical
 CC combination of an active form of substance P with morphine in a new
 CC chimeric hybrid molecule. The morphine is chemically modified and
 CC covalently linked through its 6'OH group, and comprises a cyclic alkaloid
 CC moiety which binds as an agonist to a mammalian or human mu opioid
 CC receptor. An active C-mu terminal substance P fragment, chemically
 CC modified and covalently linked through its free NH2 group, comprises a
 CC peptide moiety, which binds moiety which binds as an agonist to a
 CC mammalian/human substance P receptor. A compact, but flexible, molecular
 CC hinge covalently cross links morphine through its 6'OH group to the free
 CC NH2 group of the substance P receptor agonist moiety, so as to allow both

CC the mu opioid receptor and the substance P receptor agonist moieties to
 CC activate their respective receptors simultaneously and independently. The
 CC chimeric hybrid molecules are administered intrathecally, systemically,
 CC orally, intradermally, parenterally (e.g. subcutaneously, intravenously),
 CC through injection, transdermally, (e.g. topically), transmucosally or
 CC rectally. The method is useful for the treatment of acute and chronic
 CC pain, and drug abuse. The molecules show reduced side effects. The
 CC molecules provide opioid analgesia in living subjects while inhibiting
 CC tolerance development and dependence formation. The present sequence
 CC representing a peptide from mammalian substance P is used in the method
 CC of the invention.
 CC
 XX SQ Sequence 5 AA;
 CC
 CC Query Match 100.0%; Score 27; DB 8; Length 5;
 CC Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 CC Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC
 QY 1 FFGLM 5
 Db |||||
 1 FFGLM 5
 CC
 CC RESULT 21
 CC ADR43771
 CC ID ADR43771 standard; peptide; 5 AA.
 CC XX
 CC AC ADR43771;
 CC XX
 CC DT 19-NOV-2004 (first entry)
 CC XX
 CC DE Human magnesium binding defect (MGBD) peptide mimetic #1.
 CC XX
 CC KW Magnesium binding defect; MGBD; MGBD binding defect peptide mimetic;
 CC KW physiological disorder; preeclampsia; pregnancy;
 CC KW salt-sensitive essential hypertension; type 2 diabetes mellitus; human.
 CC XX
 CC OS Homo sapiens.
 CC XX
 CC PH Key Location/Qualifiers
 CC FT Modified-site 5 /label= OTHER
 CC FT /note= "OTHER= C-terminal amide"
 CC FT
 CC PN US2004171093-A1.
 CC XX
 CC PD 02-SEP-2004.
 CC XX
 CC PF 22-MAR-2004; 2004US-00805881.
 CC XX
 CC PR 10-MAR-1999; 99US-00265690.
 CC PR 09-AUG-2000; 2000US-00635266.
 CC PR 24-JAN-2002; 2002US-00053669.
 CC PR 29-AUG-2002; 2002US-00230133.
 CC PR 28-OCT-2003; 2003US-00695536.
 CC XX
 CC PA (WELL/) WELLS I C.
 CC XX
 CC PI Wells IC;
 CC XX
 CC DR WPI; 2004-625105/60.
 CC XX
 CC XX Assessing predisposition to physiological disorder associated with
 CC magnesium binding defect in individual, by measuring level of amidated
 CC peptides associated with magnesium binding defect in sample and comparing
 CC peptide level to standard.
 CC XX
 CC PS Claim 1; SEQ ID NO 1; 21pp; English.
 CC XX
 CC XX The invention relates to a method of assessing a predisposition to a
 CC physiological disorder associated with a magnesium binding defect in an
 CC individual, involving measuring the level of amidated peptides associated
 CC with the magnesium binding defect in a sample of body fluid of the

CC individual and comparing the level of peptide to a standard, where a
 CC significantly lower level of the peptide is indicative of a
 CC predisposition of the individual to the physiological disorder. The
 CC invention also relates to a method of monitoring progress in treatment of
 CC a physiological disorder associated with a magnesium binding defect in an
 CC individual, involving comparing the level of peptide to the level of
 CC peptide after treatment, where a significant increase in the level of the
 CC peptide is indicative of the progress of treatment of the individual, a
 CC monoclonal antibody that specifically binds to a peptide or its peptide
 CC mimetic, a prognosis reagent for determining the presence of a magnesium
 CC binding defect, generating a deficit of plasma membrane tightly bound
 CC magnesium ion in mammalian somatic cells involving obtaining a sample of
 CC body fluid comprising somatic cells, collecting the somatic cells from
 CC the body fluid by centrifugation, resuspending the somatic cells in a
 CC cell stabilising buffer, removing a sample of the suspended somatic
 CC cells, measuring the level of tightly bound magnesium ion in the sample
 CC of the somatic cells and repeating the removing and measuring steps at
 CC subsequent times until the level of tightly bound magnesium is
 CC significantly reduced and the somatic cells remain intact, a method of
 CC identifying substances which promote binding of tightly bound magnesium
 CC ion to a plasma membrane of mammalian somatic cells involving suspending
 CC mammalian somatic cells having a deficit of plasma membrane tightly bound
 CC magnesium in a physiological medium including magnesium ion, adding a
 CC substance to be tested to the suspension and measuring the level of
 CC tightly bound magnesium ion in the plasma membrane of the somatic cells
 CC where a significant increase in the level of plasma membrane tightly
 CC bound magnesium after addition of the substance to be tested is
 CC indicative of promotion of binding by the substance, and a method for
 CC ameliorating or correcting a magnesium binding defect in an individual
 CC involving administering to the individual a substance which promotes
 CC binding of tightly bound magnesium ion to the plasma membrane of
 CC mammalian somatic cells. The methods are useful for assessing a
 CC predisposition to a physiological disorder associated with a magnesium
 CC binding defect in an individual, where the disorder is a predisposition
 CC to preeclampsia during pregnancy, salt-sensitive essential hypertension
 CC or type 2 diabetes mellitus associated with the magnesium binding defect.
 CC The method is also useful for ameliorating or correcting a magnesium
 CC binding defect (MgBD) in an individual. This sequence represents a human
 CC MgBD mimetic peptide of the invention.

XX
 SQ Sequence 5 AA;

Query Match 100.0%; Score 27; DB 8; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 FFGLM 5
 |||||
 Db 1 FFGLM 5

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- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pap.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pap.*
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- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pap.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pap.*
- 18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pap.*
- 19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pap.*
- 20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Length	ID	Description
1	27	100.0	5	9	US-09-265-690C-1
2	27	100.0	5	14	US-10-053-669-1
3	27	100.0	5	15	US-10-134-187-3
4	27	100.0	5	16	US-10-688-741-3
5	27	100.0	5	16	US-10-805-881-1
6	27	100.0	5	17	US-10-497-628-15
7	24	88.9	5	17	US-10-497-628-16
8	22	81.5	4	17	US-10-821-240A-270
9	21	77.8	4	9	US-09-265-690C-2
10	21	77.8	4	14	US-10-230-133-3
11	21	77.8	4	14	US-10-053-669-2
12	21	77.8	4	16	US-10-695-536-3
13	21	77.8	4	16	US-10-805-881-2

14	21	77.8	4	17	US-10-497-628-2	Sequence 2, Appli
15	21	77.8	5	16	US-10-346-737A-30	Sequence 30, Appli
16	21	77.8	5	17	US-10-497-628-17	Sequence 17, Appli
17	20	74.1	5	9	US-09-265-690C-4	Sequence 4, Appli
18	20	74.1	5	14	US-10-230-133-4	Sequence 4, Appli
19	20	74.1	5	14	US-10-053-669-4	Sequence 4, Appli
20	20	74.1	5	16	US-10-695-536-4	Sequence 4, Appli
21	20	74.1	5	16	US-10-805-881-4	Sequence 4, Appli
22	19	70.4	5	16	US-10-346-737A-22	Sequence 22, Appli
23	18	66.7	4	8	US-08-484-409-14	Sequence 14, Appli
24	18	66.7	4	14	US-10-155-170-4	Sequence 826, App
25	18	66.7	4	14	US-10-351-641-826	Sequence 4, Appli
26	18	66.7	4	16	US-10-822-661-4	Sequence 298, App
27	18	66.7	4	17	US-10-821-240A-298	Sequence 38, Appli
28	18	66.7	5	11	US-09-920-306-38	Sequence 32, Appli
29	17	63.0	5	14	US-10-168-789A-32	Sequence 299, App
30	17	63.0	5	17	US-10-783-311-299	Sequence 9, Appli
31	16	59.3	4	9	US-09-879-442A-9	Sequence 2, Appli
32	16	59.3	5	10	US-09-886-135-2	Sequence 45, Appli
33	16	59.3	5	16	US-10-820-052A-45	Sequence 3, Appli
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35	16	59.3	5	17	US-10-337-105-4	Sequence 2, Appli
36	16	59.3	5	17	US-10-891-122-2	Sequence 2, Appli
37	15	55.6	3	14	US-10-230-133-2	Sequence 2, Appli
38	15	55.6	3	16	US-10-695-536-2	Sequence 2, Appli
39	15	55.6	4	17	US-10-823-964A-11	Sequence 11, Appli
40	15	55.6	5	11	US-09-920-306-40	Sequence 40, Appli
41	15	55.6	5	14	US-10-301-499A-25	Sequence 25, Appli
42	15	55.6	5	14	US-10-168-789A-39	Sequence 39, Appli
43	15	55.6	5	14	US-10-194-441A-85	Sequence 85, Appli
44	15	55.6	5	15	US-10-311-366-9	Sequence 9, Appli
45	15	55.6	5	16	US-10-128-520-360	Sequence 360, App

ALIGNMENTS

RESULT 1
US-09-265-690C-1
; Sequence 1, Application US/09265690C
; Publication No. US20010051345A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound M
; FILE REFERENCE: 1427001
; CURRENT APPLICATION NUMBER: US/09/265,690C
; CURRENT FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
US-09-265-690C-1

Query Match 100.0%; Score 27; DB 9; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PFGLM 5

Db 1 PFGLM 5

RESULT 2

US-10-053-669-1

; Sequence 1, Application US/10053669

; Publication No. US20030077658A1

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; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
; FILE REFERENCE: N1427-005
; CURRENT APPLICATION NUMBER: US/10/053,669
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: 09/265,690
; PRIOR FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
US-10-053-669-1

Query Match
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
Db 1 FFGLM 5

RESULT 3
US-10-134-187-3
; Sequence 3, Application US/10134187
; Publication No. US20030202981A1
; GENERAL INFORMATION:
; APPLICANT: Kream, Richard M.
; APPLICANT: Kream, Richard M.
; APPLICANT: Kream, Richard M.
; TITLE OF INVENTION: Chimeric Hybrid Analgesics
; FILE REFERENCE: Kream
; CURRENT APPLICATION NUMBER: US/10/134,187
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 5
; TYPE: PRT
; ORGANISM: mammalian
US-10-134-187-3

Query Match
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
Db 1 FFGLM 5

RESULT 4
US-10-688-741-3
; Sequence 3, Application US/10688741
; Publication No. US20040106636A1
; GENERAL INFORMATION:
; APPLICANT: Kream, Richard M.
; APPLICANT: Kream, Richard M.
; APPLICANT: Kream, Richard M.
; TITLE OF INVENTION: Method Of Inhibiting Opioid Tolerance Development With Chimeric H
; FILE REFERENCE: Kream
; CURRENT APPLICATION NUMBER: US/10/688,741
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 3
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 5
; TYPE: PRT
; ORGANISM: mammalian
US-10-688-741-3

Query Match
Best Local Similarity 100.0%; Score 27; DB 16; Length 5;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
Db 1 FFGLM 5

RESULT 5
US-10-805-881-1
; Sequence 1, Application US/10805881
; Publication No. US20040171093A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert C.
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
; FILE REFERENCE: 800812-0005
; CURRENT APPLICATION NUMBER: US/10/805,881
; CURRENT FILING DATE: 2004-03-22
; PRIOR APPLICATION NUMBER: US 10/053,669
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 10/695,536
; PRIOR FILING DATE: 2003-10-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
US-10-805-881-1

Query Match
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Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
Db 1 FFGLM 5

RESULT 6
US-10-497-628-15
; Sequence 15, Application US/10497628
; Publication No. US20050009752A1
; GENERAL INFORMATION:
; APPLICANT: Teruo Nishida
; APPLICANT: Makoto Inui
; APPLICANT: Masatsugu Nakamura
; TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
; FILE REFERENCE: 04355/HG
; CURRENT APPLICATION NUMBER: US/10/497,628
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: JP 2001-368103
; PRIOR FILING DATE: 2001-12-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Human
US-10-497-628-15
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Qy 1 PFGLM 5
Db 1 PFGLM 5

RESULT 7
US-10-497-628-16
; Sequence 16, Application US/10497628
; Publication No. US20050009752A1
; GENERAL INFORMATION:
; APPLICANT: Teruo Nishida
; APPLICANT: Makoto Inui
; APPLICANT: Masatugu Nakamura
; TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
; FILE REFERENCE: 04355/HG
; CURRENT APPLICATION NUMBER: US/10/497,628
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: JP 2001-368103
; PRIOR FILING DATE: 2001-12-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Human
US-10-497-628-16

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Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PFGLM 5
Db 1 YFGLM 5

RESULT 8
US-10-821-240A-270
; Sequence 270, Application US/10821240A
; Publication No. US20050037430A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A.
; APPLICANT: Bennet, Robert
; TITLE OF INVENTION: Gene regulator
; FILE REFERENCE: 2183-5223US
; CURRENT APPLICATION NUMBER: US/10/821,240A
; CURRENT FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 10/028,075
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: EP 01203748.7
; PRIOR FILING DATE: 2001-10-04
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 270
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: derivative peptide based on m
US-10-821-240A-270

Query Match 81.5%; Score 22; DB 17; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PFGL 4
Db 1 PFGL 4

Db 1 FFGL 4

RESULT 9
US-09-265-690C-2
; Sequence 2, Application US/09265690C
; Publication No. US20010051345A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound M
; FILE REFERENCE: 1427001
; CURRENT APPLICATION NUMBER: US/09/265,690C
; CURRENT FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-09-265-690C-2

Query Match 77.8%; Score 21; DB 9; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FGLM 5
Db 1 FGLM 4

RESULT 10
US-10-230-133-3
; Sequence 3, Application US/10230133
; Publication No. US20030040625A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents an
; FILE REFERENCE: 2892-106
; CURRENT APPLICATION NUMBER: US/10/230,133
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 09/635,266
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-10-230-133-3

Query Match 77.8%; Score 21; DB 14; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FGLM 5
Db 1 FGLM 4

RESULT 11
US-10-053-669-2
; Sequence 2, Application US/10053669
; Publication No. US20030077658A1

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/ GENERAL INFORMATION:
/ APPLICANT: Wells, Ibert
/ TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
/ TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
/ FILE REFERENCE: N1427-005
/ CURRENT APPLICATION NUMBER: US/10/053,669
/ CURRENT FILING DATE: 2002-01-24
/ PRIOR APPLICATION NUMBER: 09/265,690
/ PRIOR FILING DATE: 1999-03-10
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 2
/ LENGTH: 4
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: MOD RES
/ LOCATION: (4)..(4)
/ OTHER INFORMATION: AMIDATION
/ US-10-053-669-2

Query Match          77.8%; Score 21; DB 14; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 FGLM 5
Db      1 FGLM 4

RESULT 12
US-10-695-536-3
/ Sequence 3, Application US/10695536
/ Publication No. US20040110692A1
/ GENERAL INFORMATION:
/ APPLICANT: Wells, Ibert Clifton
/ TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents
/ TITLE OF INVENTION: and Methods for Treatment of Abnormal Physiological States
/ FILE REFERENCE: 800812-0008
/ CURRENT APPLICATION NUMBER: US/10/695,536
/ CURRENT FILING DATE: 2003-10-28
/ PRIOR APPLICATION NUMBER: US 10/230,133
/ PRIOR FILING DATE: 2002-08-29
/ PRIOR APPLICATION NUMBER: US 09/635,266
/ PRIOR FILING DATE: 2000-08-09
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 3
/ LENGTH: 4
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: MOD RES
/ LOCATION: (4)..(4)
/ OTHER INFORMATION: AMIDATION
/ US-10-695-536-3

Query Match          77.8%; Score 21; DB 16; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 FGLM 5
Db      1 FGLM 4

RESULT 13
US-10-805-881-2
/ Sequence 2, Application US/10805881
/ Publication No. US2004011093A1
/ GENERAL INFORMATION:
/ APPLICANT: Wells, Ibert C.
/ TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
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/ TITLE OF INVENTION: Magnesium for Disease Diagnosis
/ FILE REFERENCE: 800812-0005
/ CURRENT APPLICATION NUMBER: US/10/805,881
/ CURRENT FILING DATE: 2004-03-22
/ PRIOR APPLICATION NUMBER: US 10/053,669
/ PRIOR FILING DATE: 2002-01-24
/ PRIOR APPLICATION NUMBER: US 10/695,536
/ PRIOR FILING DATE: 2003-10-28
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 2
/ LENGTH: 4
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: MOD RES
/ LOCATION: (4)..(4)
/ OTHER INFORMATION: AMIDATION
/ US-10-805-881-2

Query Match          77.8%; Score 21; DB 16; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 FGLM 5
Db      1 FGLM 4

RESULT 14
US-10-497-628-2
/ Sequence 2, Application US/10497628
/ Publication No. US20050009752A1
/ GENERAL INFORMATION:
/ APPLICANT: Teruo Nishida
/ APPLICANT: Makoto Inui
/ APPLICANT: Masatsugu Nakamura
/ TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
/ FILE REFERENCE: 04355/HG
/ CURRENT APPLICATION NUMBER: US/10/497,628
/ CURRENT FILING DATE: 2004-06-03
/ PRIOR APPLICATION NUMBER: JP 2001-368103
/ PRIOR FILING DATE: 2001-12-01
/ NUMBER OF SEQ ID NOS: 17
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 4
/ TYPE: PRT
/ ORGANISM: Human
/ US-10-497-628-2

Query Match          77.8%; Score 21; DB 17; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
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QY      2 FGLM 5
Db      1 FGLM 4

RESULT 15
US-10-346-737A-30
/ Sequence 30, Application US/10346737A
/ Publication No. US20040142379A1
/ GENERAL INFORMATION:
/ APPLICANT: St. Hilaire, Phaedria
/ TITLE OF INVENTION: AFFINITY FISHING FOR LIGANDS AND PROTEIN RECEPTORS
/ FILE REFERENCE: 11225.16US01
/ CURRENT APPLICATION NUMBER: US/10/346,737A
/ CURRENT FILING DATE: 2003-01-16
/ NUMBER OF SEQ ID NOS: 50
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 30
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; LENGTH: 5
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(1)
; OTHER INFORMATION: Xaa is T(Sa)
US-10-346-737A-30

Query Match      77.8%; Score 21; DB 16; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 FGLM 5
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Db      2 FGLM 5

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OM protein - protein search, using sw model

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Title: SEQ1
Perfect score: 27
Sequence: 1 ffglm 5

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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9	21	77.8	4	1	US-08-303-362A-63
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13	21	77.8	4	5	PCT-US95-05600-80
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37	18	66.7	4	1	US-08-431-539-4	Sequence 11, Appli
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44	18	66.7	4	3	US-09-264-709A-24	Sequence 24, Appli
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ALIGNMENTS

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US-07-934-553-2
; Sequence 2, Application US/07934553
; Patent No. 5314690
; GENERAL INFORMATION:
; APPLICANT: PATTERSON, ROY
; APPLICANT: HARRIS, KATHLEEN E
; TITLE OF INVENTION: METHOD AND COMPOSITION FOR REDUCING IGE
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSES: TILTON, FALLON, LUNGWUS & CHESTNUT
; STREET: 100 SOUTH WACKER DRIVE
; CITY: CHICAGO
; STATE: ILLINOIS
; COUNTRY: USA
; ZIP: 60606-4002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/934.553
; FILING DATE: 19920821
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/705.071
; FILING DATE: 24-MAY-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: PENTRESS, SUSAN B
; REGISTRATION NUMBER: 31,327
; REFERENCE/DOCKET NUMBER: NU-9033CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/456-8000
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-07-934-553-2

Query Match 100.0%; Score 27; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FFGLM 5
|||||

Db 1 FFGLM 5

RESULT 2

US-08-225-474-2
; Sequence 2, Application US/08225474
; Patent No. 5560915
; GENERAL INFORMATION:
; APPLICANT: Patterson, Roy
; APPLICANT: Harris, Kathleen E.
; TITLE OF INVENTION: Method and Composition for Treating
; TITLE OF INVENTION: Ige Mediated Allergies
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Tilton, Fallon, Lungmus & Chestnut
; STREET: 100 S. Wacker Drive, Suite 960
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-4002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/225,474
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/934,553
; FILING DATE: 21-AUG-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/705,071
; FILING DATE: 24-MAY-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Tilton, Timothy L.
; REGISTRATION NUMBER: 16,926
; REFERENCE/DOCKET NUMBER: NU 9033-CIP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312)-456-8000
; TELEFAX: (312)-456-7776
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-08-225-474-2

Query Match 100.0%; Score 27; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FFGLM 5

Db 1 FFGLM 5

RESULT 3

US-07-737-371E-6
; Sequence 6, Application US/07737371E
; Patent No. 5876948
; GENERAL INFORMATION:
; APPLICANT: Yankner, Bruce A.
; TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY
; TITLE OF INVENTION: NEUROTOXIN INHIBITORS (AS AMENDED)
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston

STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/737,371E
FILING DATE: 29-JUL-1991
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/559,172
FILING DATE: 27-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00108/028002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-737-371E-6

Query Match 100.0%; Score 27; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FFGLM 5

Db 1 FFGLM 5

RESULT 4

US-09-265-690C-1
; Sequence 1, Application US/09265690C
; Patent No. 6372440
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound M
; TITLE OF INVENTION: for Disease Diagnosis
; FILE REFERENCE: 1427001
; CURRENT APPLICATION NUMBER: US/09/265,690C
; CURRENT FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 1
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (5)-(5)
; OTHER INFORMATION: AMIDATION
US-09-265-690C-1

Query Match 100.0%; Score 27; DB 3; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FFGLM 5

Db 1 FFGLM 5

RESULT 5

```

US-07-737-371E-48
; Sequence 48, Application US/07737371E
; Patent No. 5876948
; GENERAL INFORMATION:
; APPLICANT: Yankner, Bruce A.
; TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY
; TITLE OF INVENTION: NEUROTOXIN INHIBITORS (AS AMENDED)
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/737,371E
; FILING DATE: 29-JUL-1991
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/559,172
; FILING DATE: 27-JUL-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Freeman, John W.
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00108/028002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; OTHER INFORMATION: where Xaa at position 5 is Nle
;
; Query Match 88.9%; Score 24; DB 2; Length 5;
; Best Local Similarity 80.0%; Pred. No. 4.le+05;
; Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
;
QY 1 PFGLM 5
Db 1 YFGLM 5

RESULT 6
US-07-737-371E-47
; Sequence 47, Application US/07737371E
; Patent No. 5876948
; GENERAL INFORMATION:
; APPLICANT: Yankner, Bruce A.
; TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY
; TITLE OF INVENTION: NEUROTOXIN INHIBITORS (AS AMENDED)
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/737,371E
; FILING DATE: 29-JUL-1991
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/559,172
; FILING DATE: 27-JUL-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Freeman, John W.
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00108/028002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; OTHER INFORMATION: where Xaa at position 5 is Nle
;
; Query Match 81.5%; Score 22; DB 2; Length 5;
; Best Local Similarity 100.0%; Pred. No. 4.le+05;
; Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 1 PFGL 4
Db 1 PFGL 4

RESULT 7
US-07-737-371E-49
; Sequence 49, Application US/07737371E
; Patent No. 5876948
; GENERAL INFORMATION:
; APPLICANT: Yankner, Bruce A.
; TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY
; TITLE OF INVENTION: NEUROTOXIN INHIBITORS (AS AMENDED)
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/737,371E
; FILING DATE: 29-JUL-1991
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/559,172
; FILING DATE: 27-JUL-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Freeman, John W.
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00108/028002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:

```

LENGTH: 5 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:

LOCATION: 5...5
OTHER INFORMATION: where Xaa at position 5 is ethionine
US-07-737-371E-49

Query Match 81.5%; Score 22; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 PFGL 4
DB 1 PFGL 4

RESULT 8

US-08-441-591-63
Sequence 63, Application US/08441591
Patent No. 5637682
GENERAL INFORMATION:
APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: TO THE TACHYKININ
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION NUMBER: US/08/441,591
FILING DATE: 10-JUNE-1991
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/303,362
FILING DATE: 9-SEPTEMBER-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/931,473
FILING DATE: 17-AUGUST-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/117,991
FILING DATE: 8-SEPTEMBER 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX21/C
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 4

Query Match 77.8%; Score 21; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;

TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-441-591-63

Query Match 77.8%; Score 21; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FGLM 5
DB 1 FGLM 4

RESULT 9

US-08-303-362A-63
Sequence 63, Application US/08303362A
Patent No. 5648214
GENERAL INFORMATION:
APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: TO THE TACHYKININ
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,362A
FILING DATE: 9-SEPTEMBER-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/931,473
FILING DATE: 17-AUGUST-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/117,991
FILING DATE: 8-SEPTEMBER 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 63:
SEQUENCE CHARACTERISTICS:
LENGTH: 4
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-303-362A-63

Query Match 77.8%; Score 21; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FGLM 5
Db 1 FGLM 4

RESULT 10

US-09-265-690C-2
; Sequence 3, Application US/09265690C

; Patent No. 6372440

; GENERAL INFORMATION:

; APPLICANT: Wells, Ibert

; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma

; FILE REFERENCE: 1427001

; CURRENT APPLICATION NUMBER: US/09/265,690C

; CURRENT FILING DATE: 1999-03-10

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 2

; LENGTH: 4

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: MOD_RES

; LOCATION: (4)..(4)

; OTHER INFORMATION: AMIDATION

US-09-265-690C-2

Query Match

Best Local Similarity 77.8%; Score 21; DB 3; Length 4;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FGLM 5
Db 1 FGLM 4

RESULT 11

US-09-635-266-3

; Sequence 3, Application US/09635266

; Patent No. 6455734

; GENERAL INFORMATION:

; APPLICANT: Wells, Ibert

; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and

; FILE REFERENCE: N1427-002

; CURRENT APPLICATION NUMBER: US/09/635,266

; CURRENT FILING DATE: 2000-08-09

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3

; LENGTH: 4

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: MOD_RES

; LOCATION: (4)..(4)

; OTHER INFORMATION: AMIDATION

US-09-635-266-3

Query Match

Best Local Similarity 77.8%; Score 21; DB 4; Length 4;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FGLM 5
Db 1 FGLM 4

RESULT 12

US-10-230-133-3

; Sequence 3, Application US/10230133

; Patent No. 6664420

; GENERAL INFORMATION:

; APPLICANT: Wells, Ibert

; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents an

; FILE REFERENCE: 2892-106

; CURRENT APPLICATION NUMBER: US/10/230,133

; CURRENT FILING DATE: 2002-08-29

; PRIOR APPLICATION NUMBER: 09/635,266

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3

; LENGTH: 4

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: MOD_RES

; LOCATION: (4)..(4)

; OTHER INFORMATION: AMIDATION

US-10-230-133-3

Query Match

Best Local Similarity 77.8%; Score 21; DB 4; Length 4;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FGLM 5
Db 1 FGLM 4

RESULT 13

PCT-US95-05600-80

; Sequence 80, Application PC/TUS9505600

; GENERAL INFORMATION:

; APPLICANT: GOLD, LARRY

; APPLICANT: NIEUMLANDT, DAN

; APPLICANT: WECKER, MATTHEW

; APPLICANT: SCHNEIDER, DANIEL J.

; APPLICANT: FEIGON, JULI

; APPLICANT: ALLEN, PATRICK

; APPLICANT: SULLENGER, BRUCE A.

; APPLICANT: DODNA, JENNIFER A.

; TITLE OF INVENTION: HIGH-AFFINITY LIGANDS OF

; TITLE OF INVENTION: INSULIN RECEPTOR ANTIBODIES, TACHYKININ SUBSTANCE

; NUMBER OF SEQUENCES: 239

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Swanson & Bratschun, L.L.C.

; STREET: 8400 E. Prentice Avenue, Suite 200

; CITY: Englewood

; STATE: Colorado

; COUNTRY: USA

; ZIP: 80111

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MG

; MEDIUM TYPE: storage

; COMPUTER: IBM compatible

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: WordPerfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/05600

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION NUMBER: 08/238,863

; FILING DATE: 06-MAY-1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/248,632

; FILING DATE: 24-MAY-1994

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

```

; APPLICATION NUMBER: 08/303,362
; FILING DATE: 09-SEPTEMBER-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/361,795
; FILING DATE: 21-DECEMBER-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/117,991
; FILING DATE: 08-SEPTEMBER-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/931,473
; FILING DATE: 17-AUGUST-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/964,624
; FILING DATE: 21-OCTOBER-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428
; FILING DATE: 11-JUNE-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/714,131
; FILING DATE: 10-JUNE-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428
; FILING DATE: 11-JUNE-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Barry J. Swanson
; REGISTRATION NUMBER: 33,215
; REFERENCE/DOCKET NUMBER: NEX17/PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 793-3333
; TELEFAX: (303) 793-3433
; INFORMATION FOR SEQ ID NO: 80:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PCT-US95-05600-80

```

```

Query Match 77.8%; Score 21; DB 5; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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QY 2 FGLM 5
Db 1 FGLM 4

```

```

RESULT 14
US-08-070-301-6
; Sequence 6, Application US/08070301
; Patent No. 5871995
; GENERAL INFORMATION:
; APPLICANT: IIDA, Toshio
; APPLICANT: KAMINUMA, Toshihiko
; APPLICANT: FUSE, Yuka
; APPLICANT: TAJIMA, Masahiro
; APPLICANT: YANAGI, Mitsuo
; APPLICANT: OKAMOTO, Hiroshi
; APPLICANT: KISHIMOTO, Jiro
; APPLICANT: IFUKU, Ohji
; APPLICANT: KATO, Ichiro
; TITLE OF INVENTION: ENZYME PARTICIPATING IN C-TERMINAL
; AMIDATION, AND METHOD OF PREPARING SAME AND USE THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wegner, Cantor, Mueller & Player, P.C.
; STREET: 1233 20th Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20036-8218
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

```

```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/070,301
; FILING DATE: 24-MAY-1991
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 1-209687
; FILING DATE: 15-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 1-181933
; FILING DATE: 31-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-76331
; FILING DATE: 26-MAR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-106412
; FILING DATE: 24-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-205475
; FILING DATE: 02-AUG-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Player, William E.
; REGISTRATION NUMBER: 31,409
; REFERENCE/DOCKET NUMBER: P-450-22830
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-040
; TELEFAX: (202) 835-0605
; TELEX: 440706
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-070-301-6

```

```

Query Match 77.8%; Score 21; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 2 FGLM 5
Db 1 FGLM 4

```

```

RESULT 15
US-07-753-909B-3
; Sequence 3, Application US/07753909B
; Patent No. 5304632
; GENERAL INFORMATION:
; APPLICANT: Vaudry, Hubert
; APPLICANT: Conlon, Michael J.
; TITLE OF INVENTION: Neuropeptides of the Tachykinin Family
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Zarley, McKee, Thomte, Voorhees, and Sease
; STREET: 801 Grand, Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/753,909B
; FILING DATE: 19910903
; CLASSIFICATION: 530

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;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: FR 9106759
;; FILING DATE: 04-JUN-1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Sease, Edmund J.
;; REGISTRATION NUMBER: 24,741
;; TELEPHONE: (515)-288-3667
;; TELEFAX: (515)-288-1338
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 5 amino acids
;; TYPE: AMINO ACID
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FRAGMENT TYPE: C-terminal
;; ORIGINAL SOURCE:
;; ORGANISM: Rana ridibunda
;; DEVELOPMENTAL STAGE: adult
;; TISSUE TYPE: brain
US-07-753-909B-3

Query Match 74.1%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.le+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 PFGLM 5
Db 1 FXGLM 5

Search completed: March 23, 2005, 14:50:58
Job time : 31 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:38:05 ; Search time 23.5 Seconds
(without alignments)
20.472 Million cell updates/sec

Title: SEQ2

Perfect score: 25

Sequence: 1 fvglm 5

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 206

Minimum DB seq length: 0

Maximum DB seq length: 5

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR 79:**

2: Pirl:**

3: PIR3:**

4: PIR4:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14	56.0	5	2 G44817	27.5 kda structural
2	14	56.0	5	2 I44817	27.5K structural p
3	14	56.0	5	2 E44817	27.5K structural p
4	14	56.0	5	2 C44817	28.5K structural p
5	14	56.0	5	2 A44817	28K structural pro
6	11	44.0	4	2 PT0240	Ig heavy chain CRD
7	11	44.0	5	2 A61445	Met-enkephalin - b
8	11	44.0	5	2 PT0278	Ig heavy chain CRD
9	10	40.0	4	2 A53284	T-cell receptor be
10	10	40.0	5	2 B61168	cocoonase (EC 3.4.
11	10	40.0	5	2 A44592	fulicin - giant Af
12	9	36.0	5	2 A32516	cholecystokinin-5
13	9	36.0	5	4 A58728	serrawettin W2 - S
14	8	32.0	4	2 PT0633	T-cell receptor be
15	8	32.0	5	2 A44955	alkanal monooxygen
16	8	32.0	5	2 B61445	Leu-enkephalin - b
17	8	32.0	5	2 PT0572	T-cell receptor be
18	7	28.0	3	3 B23751	spinal cord peptid
19	7	28.0	4	2 T30569	hypothetical prote
20	7	28.0	4	2 I38888	COI intron 16 prot
21	7	28.0	4	2 E44823	synaptosomal-assoc
22	7	28.0	4	2 PL0140	carbon-monoxide de
23	7	28.0	4	2 A35779	neuropeptide Antho
24	7	28.0	4	2 A60418	FMRFamide - polych
25	7	28.0	4	2 PT0721	T-cell receptor be
26	7	28.0	4	2 A32039	tyrosine-melanocyt
27	7	28.0	4	2 ECKN	cardioexcitatory n
28	7	28.0	5	2 T10954	hypothetical prote
29	7	28.0	5	2 B45525	actin I - malaria

30 7 28.0 5 2 D44823 synaptosomal-assoc
31 7 28.0 5 2 PT0713 T-cell receptor be
32 7 28.0 5 2 S69237 surface protein te
33 6 24.0 3 3 PT0636 T-cell receptor be
34 6 24.0 3 3 PT0571 T-cell receptor be
35 6 24.0 3 3 S68328 blood cell protein
36 6 24.0 3 3 GKHU growth-modulating
37 6 24.0 3 3 A60898 bursin - chicken
38 6 24.0 3 3 A23751 spinal cord peptid
39 6 24.0 4 1 BCXAA antho-RFamide neur
40 6 24.0 4 2 D41654 hypothetical prote
41 6 24.0 4 2 S53508 starvation-induced
42 6 24.0 4 2 A25844 auto-RF amide neu
43 6 24.0 4 2 A34626 RPCH-related neuro
44 6 24.0 4 2 S39390 myosin-light-chain
45 6 24.0 4 2 S43959 Ig mu chain V regi

ALIGNMENTS

RESULT 1

G44817

27.5 kda structural protein - Leuconostoc oenos phase P32 (fragment)

C;Species: Leuconostoc oenos phase P32

C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998

C;Accession: G44817

R;Arendt, E.K.; Lonvaud, A.; Hammes, W.P.

J. Gen. Microbiol. 137, 2135-2139, 1991

A;Title: Lysogeny in Leuconostoc oenos.

A;Reference number: A44817; MUID:92085033; PMID:1748868

A;Accession: G44817

A;Molecule type: protein

A;Residues: 1-5 <ARE>

A;Note: sequence extracted from NCBI backbone (NCBIP:70333)

Query Match 56.0%; Score 14; DB 2; Length 5;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VGL 4

Db 3 VGL 5

RESULT 2

I44817

27.5K structural protein - Leuconostoc oenos phase P37 (fragment)

C;Species: Leuconostoc oenos phase P37

C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998

C;Accession: I44817

R;Arendt, E.K.; Lonvaud, A.; Hammes, W.P.

J. Gen. Microbiol. 137, 2135-2139, 1991

A;Title: Lysogeny in Leuconostoc oenos.

A;Reference number: A44817; MUID:92085033; PMID:1748868

A;Accession: I44817

A;Molecule type: protein

A;Residues: 1-5 <ARE>

A;Note: sequence extracted from NCBI backbone (NCBIP:70330)

Query Match 56.0%; Score 14; DB 2; Length 5;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VGL 4

Db 3 VGL 5

RESULT 3

E44817

27.5K structural protein - Leuconostoc oenos phase P54 (fragment)

C;Species: Leuconostoc oenos phase P54

C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
 C;Accession: E44817
 R;Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
 J. Gen. Microbiol. 137, 2135-2139, 1991
 A;Title: Lysogeny in Leuconostoc oenos
 A;Reference number: A44817; PMID:92085033; PMID:1748868
 A;Accession: E44817
 A;Molecule type: protein
 A;Residues: 1-5 <ARE>
 A;Note: sequence extracted from NCBI backbone (NCBIP:70336)

Query Match 56.0%; Score 14; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VGL 4
 :|||
 Db 3 VGL 5

RESULT 4
 C44817
 28-K structural protein - Leuconostoc oenos phase PAT5-12 (fragment)
 C;Species: Leuconostoc oenos phase PAT5-12
 C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
 C;Accession: C44817
 R;Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
 J. Gen. Microbiol. 137, 2135-2139, 1991
 A;Title: Lysogeny in Leuconostoc oenos
 A;Reference number: A44817; PMID:92085033; PMID:1748868
 A;Accession: C44817
 A;Molecule type: protein
 A;Residues: 1-5 <ARE>
 A;Note: sequence extracted from NCBI backbone (NCBIP:70341)

Query Match 56.0%; Score 14; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VGL 4
 :|||
 Db 3 VGL 5

RESULT 5
 A44817
 28K structural protein - Leuconostoc oenos phase PZt11-15 (fragment)
 C;Species: Leuconostoc oenos phase PZt11-15
 C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
 C;Accession: A44817
 R;Arendt, E.K.; Lonvaud, A.; Hammes, W.P.
 J. Gen. Microbiol. 137, 2135-2139, 1991
 A;Title: Lysogeny in Leuconostoc oenos
 A;Reference number: A44817; PMID:92085033; PMID:1748868
 A;Accession: A44817
 A;Molecule type: protein
 A;Residues: 1-5 <ARE>
 A;Note: sequence extracted from NCBI backbone (NCBIP:70343)

Query Match 56.0%; Score 14; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VGL 4
 :|||
 Db 3 VGL 5

RESULT 6
 PT0240
 Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)
 C;Species: Homo sapiens (man)
 C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996

C;Accession: PT0240
 R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
 J. Exp. Med. 173, 395-407, 1991
 A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and J.
 A;Reference number: PT0222; PMID:91108337; PMID:1899102
 A;Accession: PT0240
 A;Molecule type: DNA
 A;Residues: 1-4 <YAM>
 A;Experimental source: B lymphocyte
 C;Keywords: heterotetramer; immunoglobulin

Query Match 44.0%; Score 11; DB 2; Length 4;
 Best Local Similarity 50.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGL 4
 :|||
 Db 1 YFGL 4

RESULT 7
 A61445
 Met-enkephalin - blue mussel
 C;Species: Mytilus edulis (blue mussel)
 C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994 #text_change 21-Jan-2000
 C;Accession: A61445
 R;Leung, M.K.; Stefano, G.B.
 Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984
 A;Title: Isolation and identification of enkephalins in pedal ganglia of Mytilus edulis
 A;Reference number: A61445; PMID:84144823; PMID:6583690
 A;Accession: A61445
 A;Molecule type: protein
 A;Residues: 1-5 <LEU>
 A;Experimental source: pedal ganglia
 C;Keywords: neuropeptide; opioid peptide

Query Match 44.0%; Score 11; DB 2; Length 5;
 Best Local Similarity 66.7%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GLM 5
 :|||
 Db 3 GFM 5

RESULT 8
 PT0278
 Ig heavy chain CRD3 region (clone 4-88) - human (fragment)
 C;Species: Homo sapiens (man)
 C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
 C;Accession: PT0278
 R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
 J. Exp. Med. 173, 395-407, 1991
 A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and J.
 A;Reference number: PT0222; PMID:91108337; PMID:1899102
 A;Accession: PT0278
 A;Molecule type: DNA
 A;Residues: 1-5 <YAM>
 A;Experimental source: B lymphocyte
 C;Keywords: heterotetramer; immunoglobulin

Query Match 44.0%; Score 11; DB 2; Length 5;
 Best Local Similarity 20.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 :|||
 Db 1 YFGLV 5

RESULT 9
 A53284
 T-cell receptor beta 2 chain D region, Dbeta2 - rabbit

C;Species: Oryctolagus cuniculus (domestic rabbit)
 C;Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
 C;Accession: A53284
 R;Harindranath, N.; Alexander, C.B.; Mage, R.G.
 A;Title: Evolutionarily conserved organization and sequences of germline diversity and
 Mol. Immunol. 28, 881-888, 1991
 A;Reference number: A53284; MUID:91342695; PMID:1678859
 A;Accession: A53284
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-4 <HAR>
 A;Cross-references: GB:S60737; NID:G233916; PIDN:AAB19517.1; PID:G233917
 A;Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBI:P:60739)
 C;Keywords: T-cell receptor

Query Match 40.0%; Score 10; DB 2; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GL 4
 ||
 1 GL 2

RESULT 10
 B61168
 cocoonase (EC 3.4.21.-) - Chinese oak silkmoth (fragment)
 C;Species: Antherea pernyi (Chinese oak silkmoth)
 C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 07-May-1999
 C;Accession: B61168
 R;Kramer, K.J.; Pelsted, R.L.; Law, J.H.
 J. Biol. Chem. 248, 3021-3028, 1973
 A;Title: Cocoonase. V. Structural studies on an insect serine protease.
 A;Reference number: A61168; MUID:73166540; PMID:4735570
 A;Accession: B61168
 A;Molecule type: protein
 A;Residues: 1-5 <KRA>
 C;Keywords: hydrolase; serine proteinase; zymogen
 F;1-5/Product: cocoonase (fragment) #status experimental <MAT>

Query Match 40.0%; Score 10; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VG 3
 ||
 2 VG 3

RESULT 11
 A44692
 fulicin - giant African snail
 C;Species: Achatina fulica (giant African snail)
 C;Date: 23-Mar-1995 #sequence_revision 05-Apr-1995 #text_change 09-Jul-2004
 C;Accession: A44692
 R;Ohta, N.; Kubota, I.; Takao, T.; Shimonishi, Y.; Yasuda-Kamatani, Y.; Minakata, H.; No
 Biochem. Biophys. Res. Commun. 178, 486-493, 1991
 A;Title: Fulicin, a novel neuropeptide containing a D-amino acid residue isolated from b
 A;Reference number: A44692; MUID:91315471; PMID:1859408
 A;Accession: A44692
 A;Molecule type: protein
 A;Residues: 1-5 <OHT>
 A;Cross-references: UNIPROT:P35905
 C;Keywords: amidated carboxyl end; D-amino acid; neuropeptide
 F;2/Modified site: D-asparagine (Asn) #status experimental
 F;5/Modified site: amidated carboxyl end (Val) #status experimental

Query Match 40.0%; Score 10; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FV 2
 ||

Db 4 FV 5

RESULT 12
 A32516
 cholecystokinin-5 - dog
 N;Alternate names: CCK-5
 C;Species: Canis lupus familiaris (dog)
 C;Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 18-Aug-2000
 C;Accession: A32516
 R;Shively, J.; Reeve Jr., J.R.; Eysselein, V.E.; Ben-Avram, C.; Vigna, S.R.; Walsh, J.H.
 Am. J. Physiol. 252, G272-G275, 1987
 A;Title: CCK-5: sequence analysis of a small cholecystokinin from canine brain and intest
 A;Reference number: A32516; MUID:87153871; PMID:3826354
 A;Accession: A32516
 A;Molecule type: protein
 A;Residues: 1-5 <SHI>
 C;Comment: This peptide corresponds to the five carboxyl-terminal residues of cholecysto
 C;Superfamily: gastrin
 C;Keywords: amidated carboxyl end; neuropeptide
 F;5/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 36.0%; Score 9; DB 2; Length 5;
 Best Local Similarity 66.7%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GLM 5
 ||
 1 GLM 3

Db 1 GWM 3

RESULT 13
 A58728
 serrawettin W2 - Serratia marcescens
 C;Species: Serratia marcescens
 C;Date: 10-Feb-1998 #sequence_revision 12-Feb-1998 #text_change 12-Feb-1998
 C;Accession: A58728
 R;Matsuyama, T.; Kaneda, K.; Nakagawa, Y.; Isa, K.; Hara-Hotta, H.; Yano, I.
 J. Bacteriol. 174, 1769-1776, 1992
 A;Title: A novel extracellular cyclic lipopeptide which promotes flagellum-dependent and
 A;Reference number: A58728; MUID:92193260; PMID:1548227
 A;Accession: A58728
 A;Status: unencoded polypeptide
 A;Molecule type: protein
 A;Residues: 1-5 <MAT>
 A;Experimental source: strain NS 25
 C;Comment: A surfactant lipopeptide promoting flagellum-independent surface translocatio
 C;Keywords: blocked amino end; blocked carboxyl end; D-amino acid; lipoprotein; unencode
 F;1/Modified site: D-leucine (leu) #status experimental
 F;4/Modified site: D-phenylalanine (Phe) #status experimental
 F;1-5/Cross-link: 3-hydroxydecanoyl amino end, ester carboxyl end (Leu-Ile) #status expe

Query Match 36.0%; Score 9; DB 4; Length 5;
 Best Local Similarity 50.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FV 2
 ||
 4 FI 5

Db 4 FI 5

RESULT 14
 PT0633
 T-cell receptor beta chain V-D-J region (120-2C) - mouse (fragment)
 C;Species: Mus musculus (house mouse)
 C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
 C;Accession: PT0633
 R;Feeney, A.J.
 J. Exp. Med. 174, 115-124, 1991
 A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
 A;Reference number: PT0509; MUID:91277601; PMID:1711558
 A;Accession: PT0633
 A;Status: translation not shown

A;Molecule type: mRNA
A;Residues: 1-4 <PEE>
A;Cross-references: UNIPROT:Q8BIV7
A;Experimental source: newborn thymus, strain BALB/c
C;Keywords: T-cell receptor

Query Match 32.0%; Score 8; DB 2; Length 4;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GL 4
|:
Db 3 GI 4

RESULT 15
A44955
alkanal monooxygenase (FMN-linked) (EC 1.14.14.3) alpha chain - Vibrio harveyi (fragment
C;Species: Vibrio harveyi
C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 26-May-2000
C;Accession: A44955
R;Paquette, O.; Tu, S.C.
Photochem. Photobiol. 50, 817-825, 1989
A;Title: Chemical modification and characterization of the alpha cysteine 106 at the Vib
A;Reference number: A44955; MUID:90175700; PMID:2628493
A;Accession: A44955
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-5 <PAQ>
C;Keywords: FMN; luminescence; monooxygenase; oxidoreductase

Query Match 32.0%; Score 8; DB 2; Length 5;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GL 4
|:
Db 2 GI 3

Search completed: March 23, 2005, 14:51:54
Job time : 24.5 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:21:29 ; Search time 112.5 Seconds

(without alignments)
22.759 Million cell updates/sec

Title: SR02

Perfect score: 25

Sequence: 1 fvglm 5

Scoring table: BLOSUM62

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Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 53

Minimum DB seq length: 0

Maximum DB seq length: 5

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16	64.0	5	1 TPIS_CANFA	P54714 canis famil
2	10	40.0	4	1 EOSI_HUMAN	P02731 homo sapien
3	10	40.0	5	1 ALI4_CARMA	P81817 carcinus ma
4	10	40.0	5	1 EI03_LITRU	P82099 litoria rub
5	10	40.0	5	1 RE32_LITRU	P82073 litoria rub
6	10	40.0	5	1 UP01_MOUSE	P38639 mus musculu
7	9	36.0	4	1 ILME_SEPOP	P83568 sepia offic
8	9	36.0	5	1 EI04_LITRU	P82100 litoria rub
9	7	28.0	4	1 DCML_PSECH	P19916 pseudomonas
10	7	28.0	4	1 FLRF_HIRME	P42561 hirudo medi
11	7	28.0	4	1 FLRN_ATEL	P58707 anthopleura
12	7	28.0	4	1 FWRP_MACNI	P01162 macrocallis
13	6	24.0	2	1 GNA_SEPOP	P83570 sepia offic
14	6	24.0	3	1 GRWM_HUMAN	P01157 homo sapien
15	6	24.0	4	1 ACHI_ACHFU	P35904 achatina fu
16	6	24.0	4	1 FAR3_HIRME	P42562 hirudo medi
17	6	24.0	4	1 FAR4_HIRME	P42563 hirudo medi
18	6	24.0	4	1 FFAA_ATEL	P58705 anthopleura
19	6	24.0	4	1 FRII_ATEL	P58706 anthopleura
20	6	24.0	4	1 OCP1_OCTMI	P58648 octopus min
21	6	24.0	4	1 OCP3_OCTMI	P58649 octopus min
22	6	24.0	4	2 Q16047	Q16047 homo sapien
23	6	24.0	5	1 AP21_EISFO	P84182 eisenia foe
24	6	24.0	5	1 PAPP_ARTTR	P41853 artiposhti
25	6	24.0	5	1 PAPP_CHICK	P83308 gallus gall
26	6	24.0	5	1 PAP2_PARMA	P81864 pardachirus
27	6	24.0	5	1 PSK_DAUCA	P58261 daucus caro
28	6	24.0	5	1 RE11_LITRU	P82070 litoria rub
29	6	24.0	5	1 RE21_LITRU	P82071 litoria rub
30	6	24.0	5	1 RE31_LITRU	P82072 litoria rub
31	6	24.0	5	1 SUGA_ACHDO	P19991 acheta dome

32	6	24.0	5	1 UC22_MAIZE	P80628 zea mays (m
33	6	24.0	5	1 UXA4_CHLTR	P38005 chlamydia t
34	5	20.0	4	1 DCMS_PSECH	P19918 pseudomonas
35	5	20.0	4	2 Q96AT0	Q96AT0 homo sapien
36	5	20.0	5	1 BIOA_CITFR	P13071 citrobacter
37	5	20.0	5	1 BIOB_CITFR	P12997 citrobacter
38	5	20.0	5	2 Q99007	Q99007 hordeum vul
39	5	20.0	5	2 P83073	P83073 bacillus ce
40	4	16.0	4	1 YLM1_YEAST	P38515 saccharomyc
41	4	16.0	4	2 Q08433	Q08433 rattus sp.
42	4	16.0	5	1 PRCT_CARMA	P67858 carcinus pol
43	4	16.0	5	1 PRCT_LIMPO	P67858 limulus pol
44	4	16.0	5	1 PRCT_PERAM	P67859 periplaneta
45	3	12.0	3	1 LUXE_VIBFI	P24272 vibrio fisc

ALIGNMENTS

RESULT 1
TPIS_CANFA STANDARD; PRT; 5 AA.
ID TPIS_CANFA
AC P54714;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Triosephosphate isomerase (EC 5.3.1.1) (TIM) (Triose-phosphate
DE isomerase) (Fragment).
GN Name=TP11;
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
OX NCBI_TaxID=9615;
RN [1]
RP SEQUENCE.
RC TISSUE=Heart;
EX MEDLINE=98163340; PubMed=9504812;
RA Dunn W.J., Corbett J.M., Wheeler C.H.;
RT "HSC-2DPAGE and the two-dimensional gel electrophoresis database of
RT dog heart proteins";
RL Electrophoresis 18:2795-2802(1997).
CC -|- CATALYTIC ACTIVITY: D-glyceraldehyde 3-phosphate = glycerone
CC phosphate.
CC -|- PATHWAY: Plays an important role in several metabolic pathways.
CC -|- SUBUNIT: Homodimer (By similarity).
CC -|- SIMILARITY: Belongs to the triosephosphate isomerase family.
DR HSC-2DPAGE; P54714; DOG.
DR InterPro; IPR000652; Triophos ismrse.
DR PROSITE; PS00171; TIM; PARTIAL.
KW Direct protein sequencing; Fatty acid biosynthesis; Gluconeogenesis;
KW Glycolysis; Isomerase; Pentose shunt.
FT NON TER 1
FT NON TER 5
SQ SEQUENCE 5 AA; 550 MW; 64444862C9A00000 CRC64;

Query Match 64.0%; Score 16; DB 1; Length 5;

Best Local Similarity 100.0%; Pred. No. 1.6e+06;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 FVG 3

DB 1 FVG 3

RESULT 2

EOSI_HUMAN STANDARD; PRT; 4 AA.
ID EOSI_HUMAN
AC P02731;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Bosinophilotoxic peptides.
OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE
 RX MEDLINE=76078412; PubMed=1060093;
 RA Goetzl E.J., Austen K.F.;
 RT "Purification and synthesis of eosinophilotoxic tetrapeptides of
 RT human lung tissue: identification as eosinophil chemotactic factor of
 RT anaphylaxis";
 RL Proc. Natl. Acad. Sci. U.S.A. 72:4123-4127(1975).
 CC -1- MISCELLANEOUS: These peptides are released from mast cells in lung
 CC (and other tissues) during hypersensitivity reactions
 CC (anaphylaxis). Their activities, preferentially affecting
 CC eosinophils, include chemotaxis, chemotactic deactivation, release
 CC of enzymes, and stimulation of the hexose monophosphate shunt.
 DR GO: 0006935; P: chemotaxis; IDA.
 DR GO: 0006955; P: immune response; IDA.
 KW Direct protein sequencing.
 FT VARIANT 1 1 V -> A (in other peptide).
 FT FTID=VAR_005201.
 SQ SEQUENCE 4 AA; 390 MW; 6B05B862A0000000 CRC64;
 Query Match 40.0%; Score 10; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VG 3
 Db 1 VG 2
 RESULT 3
 AL14_CARMA
 ID AL14_CARMA STANDARD; PRT; 5 AA.
 AC P81817;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Carcinostatatin 14.
 OS Carcinus maenas (Common shore crab) (Green crab).
 OC Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
 OC Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Brachyura;
 OC Eubrachyura; Portunoidae; Portunidae; Carcinus.
 OX NCBI_TaxID=6759;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Cerebral ganglion, and Thoracic ganglion;
 RX MEDLINE=98121193; PubMed=9461295;
 RA Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros P.P.,
 RA Thorpe A.;
 RT "Isolation and identification of multiple neuropeptides of the
 RT allatostatatin superfamily in the shore crab Carcinus maenas.";
 RL Eur. J. Biochem. 250:727-734(1997).
 CC -1- SIMILARITY: May act as a neurotransmitter or neuromodulator.
 CC -1- SIMILARITY: Belongs to the allatostatatin family.
 KW Amidation; Direct protein sequencing; Multigene family; Neuropeptide.
 FT MOD_RES 5 5 Leucine amide (Potential).
 SQ SEQUENCE 5 AA; 586 MW; 672879D5AB300000 CRC64;
 Query Match 40.0%; Score 10; DB 1; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 GL 4
 Db 4 GL 5
 RESULT 4
 EI03_LITRU
 ID EI03_LITRU STANDARD; PRT; 5 AA.
 AC P82039;

DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Electrin 3.
 OS Litoria rubella (Desert tree frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae; Hylidae;
 OC Pelodyadinae; Litoria.
 OX NCBI_TaxID=104895;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RA Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
 RT "Peptides from the skin glands of the Australian buzzing tree frog
 RT Litoria electrica. Comparison with the skin peptides from Litoria
 RT rubella";
 RL Aust. J. Chem. 52:639-645(1999).
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- TISSUE SPECIFICITY: Skin.
 KW Amidation; Amphibian defense peptide; Direct protein sequencing.
 FT MOD_RES 5 5 Methionine amide.
 SQ SEQUENCE 5 AA; 630 MW; 668761F2C9A00000 CRC64;
 Query Match 40.0%; Score 10; DB 1; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FV 2
 Db 1 FV 2
 RESULT 5
 RE32_LITRU
 ID RE32_LITRU STANDARD; PRT; 5 AA.
 AC P82073;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Rubellidin 3.2.
 OS Litoria rubella (Desert tree frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae; Hylidae;
 OC Pelodyadinae; Litoria.
 OX NCBI_TaxID=104895;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RA Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
 RT "Peptides from the skin glands of the Australian buzzing tree frog
 RT Litoria electrica. Comparison with the skin peptides from Litoria
 RT rubella";
 RL Aust. J. Chem. 52:639-645(1999).
 CC -1- FUNCTION: Shows neither neuropeptide activity nor antibiotic
 CC activity.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
 KW Amidation; Amphibian defense peptide; Direct protein sequencing.
 FT MOD_RES 5 5
 SQ SEQUENCE 5 AA; 570 MW; 71A9C9C862A00000 CRC64;
 Query Match 40.0%; Score 10; DB 1; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VG 3
 Db 1 VG 2
 RESULT 6
 UF01_MOUSE
 ID UF01_MOUSE STANDARD; PRT; 5 AA.
 AC P38639;

DT 01-OCT-1994 (Rel. 30, Created)
 DT 01-OCT-1994 (Rel. 30, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Unknown protein from 2D-PAGE of fibroblasts (P19) (Fragment).
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN (1)
 RP SEQUENCE.
 RC TISSUE=Fibroblast; PubMed=7523108;
 RX MEDLINE=95009907; Wichter L.L., He C., Selkirk J.K.;
 RA Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;
 RT "Separation and sequencing of familial and novel murine proteins using
 RT preparative two-dimensional gel electrophoresis.";
 RL Electrophoresis 15:735-745(1994).
 CC -1- MISCELLANEOUS: On the 2D-gel the determined pI of this unknown
 CC protein is: 6.6. its MW is: 19 kDa.
 KW Direct protein sequencing.
 FT NON TER 5
 SQ SEQUENCE 5 AA; 717 MW; 7364087043100000 CRC64;

 Query Match 40.0%; Score 10; DB 1; Length 5;
 Best Local Similarity 33.3%; Pred. No. 1.6e+06;
 Matches 1; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

 Qy 1 FVG 3
 Db 1 WIG 3

 RESULT 7
 ILME SEPOF
 ID ILME SEPOF STANDARD; PRT; 4 AA.
 AC P83568;
 DT 29-MAR-2004 (Rel. 43, Created)
 DT 29-MAR-2004 (Rel. 43, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Pheromone peptide ILME.
 OS Sepia officinalis (Common cuttlefish).
 OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Colecoidea; Neocoleoidea;
 OC Decapodiformes; Sepioidea; Sepiidae; Sepia.
 OX NCBI_TaxID=6610;
 RN (1)
 RP SEQUENCE, SUBCELLULAR LOCATION, TISSUE SPECIFICITY, AND MASS
 RP SPECTROMETRY.
 RC TISSUE=Egg;
 RX MEDLINE=20403899; PubMed=10944467; DOI=10.1006/bbrc.2000.3286;
 RA Zatyiny C., Gagnon J., Boucaud-Canon E., Henry J.;
 RT "ILME: a waterborne pheromonal peptide released by the eggs of Sepia
 RT officinalis.";
 RL Biochem. Biophys. Res. Commun. 275:217-222(2000).
 RN (2)
 RP SEQUENCE.
 RC TISSUE=Egg;
 RX MEDLINE=22197108; PubMed=12207899; DOI=10.1016/S0006-291X(02)02036-3;
 RA Zatyiny C., Marvin L., Gagnon J., Henry J.;
 RT "Fertilization in Sepia officinalis: the first mollusk sperm-
 RT attracting peptide.";
 RL Biochem. Biophys. Res. Commun. 296:1186-1193(2002).
 CC -1- FUNCTION: Has myotropic activity targeting the genital tract.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- TISSUE SPECIFICITY: Follicle, fully grown oocyte and egg(EC2).
 CC -1- MASS SPECTROMETRY: MW=505.4; METHOD=NALDI; RANGE=1-4; NOTE=Ref.1.
 KW Direct protein sequencing; Pheromone.
 SQ SEQUENCE 4 AA; 505 MW; 6B16972030000000 CRC64;

 Query Match 36.0%; Score 9; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 Qy 4 LM 5
 Db 11

Db 2 LM 3

 RESULT 8
 EIO4 LITRU
 ID EIO4 LITRU STANDARD; PRT; 5 AA.
 AC P82100;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Electrin 4.
 OS Litoria rubella (Desert tree frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Hylidae; Hylidae;
 OC Pelodyadinae; Litoria.
 OX NCBI_TaxID=104895;
 RN (1)
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RA Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
 RT "Peptides from the skin glands of the Australian buzzing tree frog
 RT Litoria electrica. Comparison with the skin peptides from Litoria
 RT rubella.";
 RL Aust. J. Chem. 52:639-645(1999).
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- TISSUE SPECIFICITY: Skin.
 KW Amidation; Amphibian defense peptide; Direct protein sequencing.
 FT MOD RES 5
 SQ SEQUENCE 5 AA; 616 MW; 61F2D1A059A00000 CRC64;

 Query Match 36.0%; Score 9; DB 1; Length 5;
 Best Local Similarity 50.0%; Pred. No. 1.6e+06;
 Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

 Qy 1 FV 2
 Db 1 FI 2

 RESULT 9
 DCWL PSECH
 ID DCWL PSECH STANDARD; PRT; 4 AA.
 AC P19916;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Carbon monoxide dehydrogenase large chain (EC 1.2.99.2) (CO
 DE dehydrogenase subunit L) (CO-DH L) (Fragment).
 GN Name=cutL;
 OS Pseudomonas carboxydohydrogena.
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
 OC Bradyrhizobiaceae.
 OX NCBI_TaxID=290;
 RN (1)
 RP SEQUENCE.
 RX MEDLINE=90055678; PubMed=2818128;
 RA Kraut M., Hugendieck I., Herwig S., Meyer O.;
 RT "Homology and distribution of CO dehydrogenase structural genes in
 RT carboxydohydrogenic bacteria.";
 RL Arch. Microbiol. 152:335-341(1989).
 CC -1- FUNCTION: Catalyzes the oxidation of carbon monoxide to carbon
 CC dioxide.
 CC -1- CATALYTIC ACTIVITY: CO + H(2)O + A = CO(2) + AH(2).
 CC -1- COFACTOR: Binds 1 copper(I) ion, 1 molybdenum(VI) ion and 1
 CC molybdopterin cytosine dinucleotide (MCD) per subunit.
 CC -1- SUBUNIT: Heterotrimer consisting of a large, a medium and a small
 CC subunit.
 DR PIR; P0140; P0140.
 KW Direct protein sequencing; Molybdenum; Oxidoreductase.
 FT NON TER 4
 SQ SEQUENCE 4 AA; 441 MW; 7761E876F0000000 CRC64;

 Query Match 28.0%; Score 7; DB 1; Length 4;

Best Local Similarity 50.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 VG 3
Db 1 MG 2

RESULT 10
FLRF_HIRME STANDARD; PRT; 4 AA.
AC P42561;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE FLRFamide.
OS Hirudo medicinalis (Medicinal leech), and
OS Helisoma trivolvis (Snail).
OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinea; Hirudinea;
OC Arhynchobdellida; Hirudiniformes; Hirudinidae; Hirudo.
OX NCBI_TaxID=6421, 27815;
RN [1]
RP SEQUENCE.
RC SPECIES=H. medicinalis;
RX MEDLINE=92195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
RA Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
RT "Identification of Rfamidae neuropeptides in the medicinal leech.";
RL Peptides 12:897-908(1991).
RN [2]
RP SEQUENCE.
RC SPECIES=H. trivolvis; TISSUE=Kidney;
RX MEDLINE=94286417; PubMed=7912428; DOI=10.1016/0196-9781(94)90166-X;
RA Madrid K.P., Price D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
RT "FWRamide-related peptides from the kidney of the snail, Helisoma trivolvis";
RL Peptides 15:31-36(1994).
RN [3]
RP SEQUENCE, AND MASS SPECTROMETRY.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the FARP (FWRamide related peptide) family.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD RES 4 4 Phenylalanine amide.
SQ SEQUENCE 4 AA; 582 MW; 6940729A0000000 CRC64;

Query Match 28.0%; Score 7; DB 1; Length 4;
Best Local Similarity 50.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FV 2
Db 1 FL 2

RESULT 11
FLRN_ATEL STANDARD; PRT; 4 AA.
AC P58707;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Antho-RNamide.
OS Anthopleura elegantissima (Sea anemone).
OC Eukaryota; Metazoa; Cnidaria; Anthozoa; Zoantharia; Actiniaria;
OC Nynanthae; Actiniidae; Anthopleura.
OX NCBI_TaxID=6110;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RX MEDLINE=90319122; PubMed=1973541;
RA Grimmelikhuijzen C.J.P., Rinehart K.L. Jr., Jacob E., Graff D.,
RA Reinscheid R.K., Nethacker H.-P., Staley A.L.;
RT "Isolation of L-3-phenylalanyl-Leu-Arg-Asn-NH2 (Antho-RNamide), a sea anemone neuropeptide containing an unusual amino-terminal blocking group";
RT group.";
RL Proc. Natl. Acad. Sci. U.S.A. 87:5410-5414(1990).

CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Neuron specific.
CC -1- MASS SPECTROMETRY: MW=549.3; METHOD=FAB; RANGS=1-4; NOTE=Ref.1.
DR PIR; A35779; A35779.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD RES 1 1 3-phenyllactic acid.
FT MOD RES 4 4 Asparagine amide.
SQ SEQUENCE 4 AA; 549 MW; 64540729A0000000 CRC64;

Query Match 28.0%; Score 7; DB 1; Length 4;
Best Local Similarity 50.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FV 2
Db 1 FL 2

RESULT 12
FMRF_MACNI STANDARD; PRT; 4 AA.
AC P01162;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE FMRamide (Peak C) (Cardioexcitatory neuropeptide).
OS Macrallista nimboza (Sun-ray clam),
OS Nereis virens (Sandworm),
OS Hirudo medicinalis (Medicinal leech), and
OS Helisoma trivolvis (Snail).
OC Eukaryota; Metazoa; Mollusca; Bivalvia; Heteroconchia; Veneroidea;
OC Veneroidea; Veneridae; Macrocallista.
OX NCBI_TaxID=6594, 6353, 6421, 27815;
RN [1]
RP SEQUENCE, AND SYNTHESIS.
RC SPECIES=M. nimboza; TISSUE=Cerebral pedal, and Visceral ganglion;
RX MEDLINE=77215956; PubMed=877582;
RA Price D.A., Greenberg M.J.;
RT "Structure of a molluscan cardioexcitatory neuropeptide";
RL Science 197:670-671(1977).
RN [2]
RP SEQUENCE, AND CHARACTERIZATION.
RC SPECIES=M. nimboza; TISSUE=Ganglion;
RX MEDLINE=78012038; PubMed=909875;
RA Price D.A., Greenberg M.J.;
RT "Purification and characterization of a cardioexcitatory neuropeptide from the central ganglia of a bivalve mollusc";
RL Prep. Biochem. 7:261-281(1977).
RN [3]
RP SEQUENCE.
RC SPECIES=N. virens;
RX MEDLINE=90259866; PubMed=2342992; DOI=10.1016/0196-9781(90)90113-J;
RA Krajniak K.G., Price D.A.;
RT "Authentic FMRamide is present in the polychaete Nereis virens.";
RL Peptides 11:75-77(1990).
RN [4]
RP SEQUENCE.
RC SPECIES=H. medicinalis;
RX MEDLINE=92195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
RA Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
RT "Identification of Rfamidae neuropeptides in the medicinal leech.";
RL Peptides 12:897-908(1991).
RN [5]
RP SEQUENCE.
RC SPECIES=H. trivolvis; TISSUE=Kidney;
RX MEDLINE=94286417; PubMed=7912428; DOI=10.1016/0196-9781(94)90166-X;
RA Madrid K.P., Price D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
RT "FWRamide-related peptides from the kidney of the snail, Helisoma trivolvis";
RL Peptides 15:31-36(1994).
RN [6]
RP SEQUENCE.
CC -1- FUNCTION: Myoactive; cardioexcitatory substance. Pharmacological activities include augmentation, induction, and regularization of cardiac contraction.

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CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the FARP (FWRamide related peptide)
CC family.
DR PIR; A01426; BCNK.
DR PIR; A60418; A60418.
KW Amidation; Direct protein sequencing; Neuropeptide.
PT MOD_RES 4 4 Phenylalanine amide.
SQ SEQUENCE 4 AA; 600 MW; 69D40699A000000000 CRC64;

Query Match 28.0%; Score 7; DB 1; Length 4;
Best Local Similarity 50.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FV 2
DB 1 FM 2

RESULT 13
GWA_SEPOF STANDARD; PRT; 2 AA.
AC P83570;
DT 29-MAR-2004 (Rel. 43, Created)
DT 29-MAR-2004 (Rel. 43, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Neuropeptide Gwa.
OS Sepia officinalis (Common cuttlefish).
OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
OC Decapodiformes; Sepioidea; Sepiidae; Sepia.
OX NCBI_TaxID=6610;
RN [1]
RP SEQUENCE, FUNCTION, MASS SPECTROMETRY, AND AMIDATION.
RC TISSUE=Optic lobe;
RX MEDLINE=98100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;
RA Henry J., Favrel P., Boucaud-Camou E.;
RT Isolation and identification of a novel Ala-Pro-Gly-Trp-amide-related
RT peptide inhibiting the motility of the mature oviduct in the
RT cuttlefish, Sepia officinalis.;
RL Peptides 18:1469-1474(1997).
CC -!- FUNCTION: Regulatory neuropeptide with myotropic activity
CC targeting the distal oviduct. Inhibits the motility of the oviduct
CC by decreasing tonus, frequency and amplitude of contractions.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- MASS SPECTROMETRY: MW=259.9; METHOD=WALDI; RANGE=1-2; NOTE=Ref.1.
KW Amidation; Direct protein sequencing; Neuropeptide.
PT MOD_RES 2 2 Tryptophan amide.
SQ SEQUENCE 2 AA; 261 MW; 73781000000000000000 CRC64;

Query Match 24.0%; Score 6; DB 1; Length 2;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 G 3
DB 1 G 1

RESULT 14
GRWM_HUMAN STANDARD; PRT; 3 AA.
AC P01157;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Growth-modulating peptide.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE.
RX MEDLINE=77162369; PubMed=858356;
RA Schlesinger D.H., Pickart L., Thaler M.M.;

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RT "Growth-modulating serum tripeptide is glycyl-histidyl-lysine.";
RL Experientia 33:324-325(1977).
CC -!- MISCELLANEOUS: This serum tripeptide has been found to stimulate
CC growth of some cell types and to inhibit other types in vitro.
DR GO; GO:0001558; P:regulation of cell growth; NAS.
KW Direct protein sequencing.
SQ SEQUENCE 3 AA; 340 MW; 6331E810000000000000 CRC64;

Query Match 24.0%; Score 6; DB 1; Length 3;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 G 3
DB 1 G 1

RESULT 15
ACH1_ACHF STANDARD; PRT; 4 AA.
AC P35904;
DT 01-JUN-1994 (Rel. 29, Created)
DT 01-JUN-1994 (Rel. 29, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Achatin-I.
OS Achatina fulica (Giant African snail).
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
OC Sigurethra; Achatinoidea; Achatinidae; Achatina.
OX NCBI_TaxID=6530;
RN [1]
RP SEQUENCE, CHARACTERIZATION, AND SYNTHESIS.
RC STRAIN=Perussac; TISSUE=Ganglion;
RX MEDLINE=89273551; PubMed=2597281;
RA Kamatani Y., Minakata H., Kenny P.T.M., Iwashita T., Watanabe K.,
RA Funase K., Sun X.P., Yongsiri A., Kim K.H., Novales-Li P.,
RA Novales E.T., Kanapi C.G., Takeuchi H., Nomoto K.;
RT "Achatin-I, an endogenous neuroexcitatory tetrapeptide from Achatina
RT fulica Perussac containing a D-amino acid residue.";
RL Biochem. Biophys. Res. Commun. 160:1015-1020(1989).
RN [2]
RP CHARACTERIZATION.
RC STRAIN=Perussac; TISSUE=Heart atrium;
RX MEDLINE=91264856; PubMed=1675568;
RA Fujimoto K., Kubota I., Yasuda-Kamatani Y., Minakata H., Nomoto K.,
RA Yoshida M., Harada A., Munesaka Y., Kobayashi M.;
RT "Purification of achatin-I from the atria of the African giant snail,
RT Achatina fulica, and its possible function.";
RL Biochem. Biophys. Res. Commun. 177:847-853(1991).
RN [3]
RP CRISTALLIZATION.
RX MEDLINE=93014529; PubMed=1399265;
RA Ishida T., In Y., Doi M., Inoue M., Yasuda-Kamatani Y., Minakata H.,
RA Iwashita T., Nomoto K.;
RT "Crystal structure and molecular conformation of achatin-I (H-Gly-D-
RT Phe-Ala-Asp-OH), an endogenous neuropeptide containing a D-amino acid
RT residue.";
RL Int. J. Pept. Protein Res. 39:258-264(1992).
CC -!- FUNCTION: Neuroexcitatory peptide; increases the impulse frequency
CC and produces a spike broadening of the identified heart excitatory
CC neuron (PON); also enhances the amplitude and frequency of the
CC heart beat. Has also an effect on several other muscles.
DR PIR; A32480; A32480.
KW D-amino acid; Direct protein sequencing; Hormone.
PT MOD_RES 2 2 D-phenylalanine.
SQ SEQUENCE 4 AA; 408 MW; 6AADD9C8100000000000 CRC64;

Query Match 24.0%; Score 6; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 G 3
DB 1 G 1

```

Search completed: March 23, 2005, 14:49:56
Job time : 112.5 secs

Result No.	Score	Query			ID	Description
		Match	Length	DB		
1	25	100.0	5	4	AAB82430	Fluorinat
2	25	100.0	5	4	AAB82431	Fluorinat
3	20	80.0	5	2	AAR33009	Alpha-sub
4	20	80.0	5	2	AAR33008	Alpha-sub
5	20	80.0	5	2	AAR33007	Alpha-sub
6	20	80.0	5	2	AAR33010	Alpha-sub
7	20	80.0	5	2	AAR80134	COOH-term
8	20	80.0	5	2	AAR54549	Cholecyst
9	20	80.0	5	2	AAR54551	Cholecyst
10	20	80.0	5	2	AAR54550	Cholecyst
11	20	80.0	5	2	AAR54548	Cholecyst
12	20	80.0	5	2	AAR41687	Tetrapept
13	20	80.0	5	2	AAR99643	Substance
14	20	80.0	5	2	AAW50325	Neutrophil
15	20	80.0	5	2	AAW92660	Human tact
16	20	80.0	5	3	AAB23028	Mammalian
17	20	80.0	5	3	AAB23025	Human/rat
18	20	80.0	5	3	AAW67576	P antagon
19	20	80.0	5	4	AAB66674	C-termina
20	20	80.0	5	4	AAB91428	Tachykini
21	20	80.0	5	4	AAB70556	Octopus t
22	20	80.0	5	5	AAU10880	Human bet
23	20	80.0	5	5	ABE10088	Substance
24	20	80.0	5	5	AAU77847	Tachykini
25	20	80.0	5	5	AAU77845	Tachykini

```

XX PS Example 3; Col 20; 25pp; English.
XX CC The present sequence is that of a protected peptide produced as an
XX CC intermediate in the chemical synthesis of a novel fluorinated neurokinin
XX CC A antagonist (AAB82428). Fluorinated neurokinin A antagonists of the
XX CC invention are based on the amino acid sequence of neurokinin A, but
XX CC include at least 1 modified peptide bond having a reduced amide and a
XX CC fluorinated alkyl attached to the N atom of the modified peptide bond.
XX CC The neurokinin A antagonists are useful as immunosuppressives and in
XX CC treating subjects, including humans, with various conditions, e.g. asthma
XX CC (claimed), arthritis, urinary incontinence, pain, inflammation, tumour
XX CC growth, gastrointestinal hypermotility, Huntington's disease, psychosis,
XX CC neuritis, neuralgia, urticaria, carcinoid syndrome symptoms, influenza,
XX CC common cold, and headache including migraine
XX SQ Sequence 5 AA;
      Query Match      100.0%; Score 25; DB 4; Length 5;
      Best Local Similarity 100.0%; Pred. No. 1.8e+06;
      Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 FVGLM 5

RESULT 2
AAB82431
ID AAB82431 standard; peptide; 5 AA.
XX AC AAB82431;
XX DT 22-AUG-2001 (first entry)
XX DE Fluorinated neurokinin A antagonist intermediate.
XX KW Neurokinin A; fluorinated peptide; antagonist; immunosuppressive;
XX KW antiarthritic; antiaesthetic; antiinflammatory; antiarthritic; analgesic;
XX KW antitumour; anticonvulsant; nootropic; antipsychotic; antimigraine;
XX KW asthma; therapy.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT Modified-site 1..2 /note= "the peptide bond is replaced by CH2-N(CH2CF3)"
XX FT Modified-site 5 /note= "C-terminal amide"
XX FT Modified-site 5
XX PN US6218364-B1.
XX PD 17-APR-2001.
XX PF 26-APR-1996; 96US-00638407.
XX PR 20-JUN-1988; 88US-00208926.
XX PR 23-FEB-1989; 89US-00315202.
XX PR 24-MAY-1989; 89US-00356031.
XX PR 17-APR-1991; 91US-00686593.
XX PR 31-MAY-1991; 91US-00709092.
XX PR 19-MAR-1993; 93US-00033987.
XX PR 29-JUL-1994; 94US-00282341.
XX XX (HARB/) HARBESON S L.
XX PA (MCCA/) MCCARTHY J R.
XX XX Harbeson SL, McCarthy JR;
XX DR WPI; 2001-366135/38.
XX PT New peptide derivative useful as immunosuppressants and in treating
XX PT subjects with various conditions, e.g. asthma.

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XX PS Example 3; Col 20; 25pp; English.
XX CC The present sequence is that of a synthetic peptide produced as an
XX CC intermediate in the chemical synthesis of a novel fluorinated neurokinin
XX CC A antagonist (AAB82428). Fluorinated neurokinin A antagonists of the
XX CC invention are based on the amino acid sequence of neurokinin A, but
XX CC include at least 1 modified peptide bond having a reduced amide and a
XX CC fluorinated alkyl attached to the N atom of the modified peptide bond.
XX CC The neurokinin A antagonists are useful as immunosuppressives and in
XX CC treating subjects, including humans, with various conditions, e.g. asthma
XX CC (claimed), arthritis, urinary incontinence, pain, inflammation, tumour
XX CC growth, gastrointestinal hypermotility, Huntington's disease, psychosis,
XX CC neuritis, neuralgia, urticaria, carcinoid syndrome symptoms, influenza,
XX CC common cold, and headache including migraine
XX SQ Sequence 5 AA;
      Query Match      100.0%; Score 25; DB 4; Length 5;
      Best Local Similarity 100.0%; Pred. No. 1.8e+06;
      Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 FVGLM 5

RESULT 3
AAR33009
ID AAR33009 standard; peptide; 5 AA.
XX AC AAR33009;
XX DT 25-MAR-2003 (revised)
XX DT 02-APR-1993 (first entry)
XX DE Alpha-substituted short peptide.
XX KW CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
XX KW improved bioavailability.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT Modified-site 4 /note= "alpha-Me-Leu"
XX FT Modified-site 5 /note= "Met-NH2"
XX FT Modified-site 5
XX PN WO9219254-A1.
XX PD 12-NOV-1992.
XX PF 15-APR-1992; 92WO-US0031119.
XX PR 24-APR-1991; 91US-00690755.
XX PR 20-MAR-1992; 92US-00852086.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Horwell DC, Hughes J, Richardson RS, Howson W;
XX DR WPI; 1992-398522/48.
XX XX New alpha-substd. polypeptide are e.g. selective receptor ligands - for
XX PT treating inflammation, pain, stroke, ulcers, hypertension, heart failure,
XX PT depression, cancer, asthma, psychosis, arthritis, etc.
XX PS Claim 3; Page 41; 46pp; English.
XX CC The peptide is a specifically claimed example of a group of generically
XX CC claimed mono-, di-, tri-, tetra- and penta-peptides which include a
XX CC substituent on an alpha-C atom in the chain. Such substitution may modify

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CC the bioavailability, stability or absorbability of the peptide and hence
 CC may improve the activity of the peptide as a drug. Depending on the
 CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
 CC peptide, etc.), the modified peptides are variously useful for treating
 CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
 CC addictive drug withdrawal symptoms, hypertension, heart failure,
 CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
 CC asthma, bladder dysfunction, psychosis and arthritis; and as
 CC contraceptive. (Updated on 25-MAR-2003 to correct PI field.) (Updated on
 CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 25-MAR-2003 to correct PI field.)

SQ Sequence 5 AA;
 Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 Db 1 FVGLM 5

RESULT 4

AAR33008
 ID AAR33008 standard; peptide; 5 AA.

XX AC AAR33008;

XX 25-MAR-2003 (revised)

DT 02-APR-1993 (first entry)

XX Alpha-substituted short peptide.

XX CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
 KW improved bioavailability.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 2

FT Modified-site 5 /note= "alpha-Me-Phe"

FT Modified-site 5 /note= "Met-NH2"

XX WO9219254-A1.

XX 12-NOV-1992.

XX 15-APR-1992; 92WO-US003119.

XX 24-APR-1991; 91US-00690755.

PR 20-MAR-1992; 92US-00852086.

XX (WARN) WARNER LAMBERT CO.

XX Horwell DC, Hughes J, Richardson RS, Howson W;

XX WPI; 1992-398522/48.

XX New alpha-subst. polypeptide are e.g. selective receptor ligands - for
 PT treating inflammation, pain, stroke, ulcers, hypertension, heart failure,
 PT depression, cancer, asthma, psychosis, arthritis, etc.

XX Claim 3; Page 41; 46pp; English.

XX The peptide is a specifically claimed example of a group of generically
 CC claimed mono-, di-, tri-, tetra- and penta-peptides which include a
 CC substituent on an alpha-C atom in the chain. Such substitution may modify
 CC the bioavailability, stability or absorbability of the peptide and hence
 CC may improve the activity of the peptide as a drug. Depending on the
 CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
 CC peptide, etc.), the modified peptides are variously useful for treating

CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
 CC addictive drug withdrawal symptoms, hypertension, heart failure,
 CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
 CC asthma, bladder dysfunction, psychosis and arthritis; and as
 CC contraceptive. (Updated on 25-MAR-2003 to correct PI field.) (Updated on
 CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 5 AA;

Query Match 80.0%; Score 20; DB 2; Length 5;

Best Local Similarity 80.0%; Pred. No. 1.8e+06;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 Db 1 FVGLM 5

RESULT 5

AAR33007
 ID AAR33007 standard; peptide; 5 AA.

XX AC AAR33007;

XX 25-MAR-2003 (revised)

DT 02-APR-1993 (first entry)

XX Alpha-substituted short peptide.

XX CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
 KW improved bioavailability.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 1

FT Modified-site 5 /note= "alpha-Me-Phe"

FT Modified-site 5 /note= "Met-NH2"

XX WO9219254-A1.

XX 12-NOV-1992.

XX 15-APR-1992; 92WO-US003119.

XX 24-APR-1991; 91US-00690755.

PR 20-MAR-1992; 92US-00852086.

XX (WARN) WARNER LAMBERT CO.

XX Horwell DC, Hughes J, Richardson RS, Howson W;

XX WPI; 1992-398522/48.

XX New alpha-subst. polypeptide are e.g. selective receptor ligands - for
 PT treating inflammation, pain, stroke, ulcers, hypertension, heart failure,
 PT depression, cancer, asthma, psychosis, arthritis, etc.

XX Claim 3; Page 41; 46pp; English.

XX The peptide is a specifically claimed example of a group of generically
 CC claimed mono-, di-, tri-, tetra- and penta-peptides which include a
 CC substituent on an alpha-C atom in the chain. Such substitution may modify
 CC the bioavailability, stability or absorbability of the peptide and hence
 CC may improve the activity of the peptide as a drug. Depending on the
 CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
 CC peptide, etc.), the modified peptides are variously useful for treating
 CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
 CC addictive drug withdrawal symptoms, hypertension, heart failure, cancer,
 CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
 CC asthma, bladder dysfunction, psychosis and arthritis; and as

CC contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
 CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 25-MAR-2003 to correct PI field.)
 XX Sequence 5 AA;
 SQ

Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 Db 1 FVGLM 5

RESULT 6
 AAR33010
 ID AAR33010 standard; peptide; 5 AA.

XX AC AAR33010;
 XX 25-MAR-2003 (revised)
 DT 02-APR-1993 (first entry)
 XX

DE Alpha-substituted short peptide.

XX CCK; neuropeptide; endorphin; hormone; LHRH; contraception; analgesia;
 KW improved bioavailability.
 XX

OS Synthetic.

XX Key Location/Qualifiers
 FH Modified-site 5
 FT /note= "alpha-Me-Met-NH2"
 FT

XX WO9219254-A1.

XX 12-NOV-1992.

XX 15-APR-1992; 92WO-US003119.

XX 24-APR-1991; 91US-00690755.

XX 20-MAR-1992; 92US-00852086.

XX (WARN) WARNER LAMBERT CO.

XX Horwell DC, Hughes J, Richardson RS, Howson W;

XX WPI; 1992-398522/48.

XX New alpha-substd. polypeptide are e.g. selective receptor ligands - for
 PT treating inflammation, pain, stroke, ulcers, hypertension, heart failure,
 PT depression, cancer, asthma, psychosis, arthritis, etc.

XX Claim 3; Page 41; 46pp; English.

XX The peptide is a specifically claimed example of a group of generically
 CC claimed mono-, di-, tri-, tetra- and penta-peptides which include a
 CC substituent on an alpha-C atom in the chain. Such substitution may modify
 CC the bioavailability, stability or absorbability of the peptide and hence
 CC may improve the activity of the peptide as a drug. Depending on the
 CC nature of the parent peptide (hormone, endorphin, CCK, NK2, chemotactic
 CC peptide, etc.), the modified peptides are variously useful for treating
 CC obesity, anxiety, gastrointestinal ulcers, pain, stroke, inflammation,
 CC addictive drug withdrawal symptoms, hypertension, heart failure, cancer,
 CC cognition or memory disorders, spasticity, depression, diabetes, cancer,
 CC asthma, bladder dysfunction, psychosis and arthritis; and as
 CC contraceptives. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
 CC 25-MAR-2003 to correct PD field.) (Updated on 25-MAR-2003 to correct PR
 CC field.) (Updated on 25-MAR-2003 to correct PI field.)
 XX Sequence 5 AA;

XX AAR54549

Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 Db 1 FVGLM 5

RESULT 7

AAW80134

ID AAW80134 standard; peptide; 5 AA.

XX AC AAW80134;

XX 17-DEC-1998 (first entry)

XX COOH-terminal sequence of the tachykinin family.

XX Human; neurokinin receptor; NK-2; neurokinin A neurotransmitter;
 KW abnormal smooth muscle cell contraction; asthma; PCR primer;
 KW gastrointestinal disorder; peptic ulcer; ulcerative colitis.
 XX

OS Unidentified.

FH Key Location/Qualifiers

FT Misc-difference 2
 FT /note= "Phe, Tyr, Val or Ile"

XX WO9216220-A1.

XX 01-OCT-1992.

XX 13-MAR-1992; 92WO-US002017.

XX 15-MAR-1991; 91US-00670066.

XX (CHIL-) CHILDRENS MEDICAL CENT.

XX Gerard NP, Gerard C;

XX WPI; 1992-348932/42.

XX Human recombinant neurokinin NK-2 receptor - antagonises interaction of
 PT neurokinin A and its receptor, useful for treating asthma and ulcerative
 PT colitis, etc.

XX Disclosure; Page 1; 43pp; English.

XX The present sequence represents the COOH-terminal sequence of the
 CC tachykinin family. The specification describes a human recombinant
 CC neurokinin (NK-2) receptor protein. The human NK-2 receptor gene was
 CC cloned from human tracheal tissue from an individual with cystic
 CC fibrosis. The coding sequence is interrupted by four introns. The protein
 CC can be used to screen for compounds that antagonise the interaction
 CC between neurokinin A neurotransmitter and its NK-2 receptor. The protein
 CC is thus useful for treating disorders associated with abnormal smooth
 CC muscle cell contraction, particularly asthma and gastrointestinal
 CC disorders such as peptic ulcers and ulcerative colitis
 XX Sequence 5 AA;

XX

Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 Db 1 FVGLM 5

RESULT 8

AAR54549

ID AAR54549 standard; peptide; 5 AA.
 AC AAR54549;
 XX
 XX
 DT 25-MAR-2003 (revised)
 DT 14-DEC-1994 (first entry)
 XX
 DE Cholecystokinin analogue peptide #42.
 XX
 XX Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
 KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
 KW heart failure; cognition; memory enhancement; spasticity; depression;
 KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
 XX
 OS Synthetic.
 XX
 XX
 FH Key Location/Qualifiers
 FT Modified-site 2 /label= MePhe
 FT Modified-site 5 /note= "Amidated C-terminal"
 FT
 FT
 FT
 XX W09409031-A1.
 PN
 XX
 PD 28-APR-1994.
 XX
 XX
 PF 14-OCT-1993; 93WO-US009809.
 XX
 PR 19-OCT-1992; 92US-00963169.
 PR 08-OCT-1993; 93US-00131693.
 XX
 XX (WARN) WARNER LAMBERT CO..
 PA
 XX
 XX Horwell DC, Howson W, Hugues J, Richardson RS;
 PI WPI; 1994-151243/18.
 DR
 XX New cholecystokinin analogues - useful e.g. in treatment of pain,
 PT obesity, stroke, anxiety, and gastrointestinal ulcers.
 PT
 XX Claim 3; Page 66; 73pp; English.
 PS
 XX The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues
 CC of cholecystokinin (CCK) which can be used to treat obesity, anxiety,
 CC gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart
 CC failure, cognition, memory enhancement, spasticity, depression, diabetes,
 CC cancers, asthma, bladder dysfunction, psychosis, arthritis and in the
 CC treatment of substance withdrawal. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX
 SQ Sequence 5 AA;
 Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 FVGLM 5
 DB 1 FVGLM 5
 XX
 XX
 DT 25-MAR-2003 (revised)
 DT 14-DEC-1994 (first entry)
 XX
 DE Cholecystokinin analogue peptide #44.
 XX
 XX Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
 KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
 KW heart failure; cognition; memory enhancement; spasticity; depression;
 KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
 XX
 OS Synthetic.
 XX
 XX
 FH Key Location/Qualifiers
 FT Modified-site 3 /label= MeLeu
 FT Modified-site 5 /note= "Amidated C-terminal"
 FT

KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
 KW heart failure; cognition; memory enhancement; spasticity; depression;
 KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
 XX
 OS Synthetic.
 XX
 XX
 FH Key Location/Qualifiers
 FT Modified-site 5 /label= MeMet
 FT Modified-site 5 /note= "Amidated C-terminal"
 FT
 FT
 FT
 XX W09409031-A1.
 PN
 XX
 PD 28-APR-1994.
 XX
 XX
 PF 14-OCT-1993; 93WO-US009809.
 XX
 PR 19-OCT-1992; 92US-00963169.
 PR 08-OCT-1993; 93US-00131693.
 XX
 XX (WARN) WARNER LAMBERT CO..
 PA
 XX
 XX Horwell DC, Howson W, Hugues J, Richardson RS;
 PI WPI; 1994-151243/18.
 DR
 XX New cholecystokinin analogues - useful e.g. in treatment of pain,
 PT obesity, stroke, anxiety, and gastrointestinal ulcers.
 PT
 XX Claim 3; Page 66; 73pp; English.
 PS
 XX The sequences given in AAR53117-38 and AAR54530-51 are peptide analogues
 CC of cholecystokinin (CCK) which can be used to treat obesity, anxiety,
 CC gastrointestinal ulcers, pain, stroke, inflammation, hypertension, heart
 CC failure, cognition, memory enhancement, spasticity, depression, diabetes,
 CC cancers, asthma, bladder dysfunction, psychosis, arthritis and in the
 CC treatment of substance withdrawal. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX
 SQ Sequence 5 AA;
 Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 FVGLM 5
 DB 1 FVGLM 5
 XX
 XX
 DT 25-MAR-2003 (revised)
 DT 14-DEC-1994 (first entry)
 XX
 DE Cholecystokinin analogue peptide #43.
 XX
 XX Peptide analogue; peptoid; cholecystokinin; CCK; obesity; anxiety;
 KW gastrointestinal ulcers; pain; stroke; inflammation; hypertension;
 KW heart failure; cognition; memory enhancement; spasticity; depression;
 KW diabetes; cancers; asthma; bladder dysfunction; psychosis; arthritis.
 XX
 OS Synthetic.
 XX
 XX
 FH Key Location/Qualifiers
 FT Modified-site 3 /label= MeLeu
 FT Modified-site 5 /note= "Amidated C-terminal"
 FT

CC disorders such as corneal ulcer, corneal epithelial peeling, dry eye and
 CC keratitis. The dosage is 0.1-5000 (preferably 1-1000) mg/day of the
 CC active ingredient and 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The
 CC preferable form of the composition is eye drops
 XX
 SQ Sequence 5 AA;

Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 FVGLM 5
 | | | |
 DB 1 FVGLM 5

RESULT 13
 AAW99643
 ID AAW99643 standard; peptide; 5 AA.

XX AAW99643;

AC AAW99643;

DT 21-MAY-1999 (first entry)

DE Substance P analogue peptide.

XX Substance P; myoblast transfer therapy; pain relief; analgesic;
 KW behavioural abnormality; perceptible abnormality; opioid receptor;
 KW psychiatric condition; depression; chronic anxiety syndrome; paranoia;
 KW alcoholism; drug addiction; chronic pain; neuron.

XX Homo sapiens.

OS Synthetic.

XX EP898967-A1.

XX 03-MAR-1999.

PD 07-APR-1998; 98EP-00201068.

PF 11-AUG-1997; 97US-0055199P.

PR (CELL-) CELL THERAPY RES FOUND.

XX Law PK;

XX WPI; 1999-144555/13.

XX New composition for supplying peptide to opioid receptor - comprises
 PT myogenic cells containing heterologous DNA encoding peptide and carrier.

XX Claim 8; Page 8; 11pp; English.

XX A composition has been developed for supplying a peptide to an opioid
 CC receptor or that interferes with binding of substance P to its receptor.
 CC The composition comprises: (a) myogenic cells that contain heterologous
 CC DNA encoding the peptide to express the peptide; and (b) a
 CC pharmaceutically acceptable carrier. The composition is useful for
 CC relieving pain and for treating behavioural and perceptible abnormalities
 CC using myoblast transfer therapy. It is useful in a method for treating
 CC psychiatric conditions that involve abnormal perception e.g. depression,
 CC chronic anxiety syndromes, paranoia, alcoholism and drug addiction,
 CC chronic pain and other diseases in which opioid neurons and substance P
 CC sensitive neurons play a role. The composition provides a continuous,
 CC long term supply of opioid peptides (long-term analgesia) which lasts for
 CC up to at least 6 years. The present sequence represents a specifically
 CC claimed substance P analogue

XX Sequence 5 AA;

Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
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OY 1 FVGLM 5
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 DB 1 FVGLM 5

RESULT 14

AAAY50325

ID AAAY50325 standard; peptide; 5 AA.

XX AAAY50325;

XX 12-JAN-2000 (first entry)

DE Neutrophil-activating pancreatic derived peptide 125.

XX Cell activation; pancreas; treatment; cardiovascular disease; trauma;
 KW inflammatory disease; autoimmune diseases; arthritis; diabetes; stroke;
 KW organ rejection; ischemia; Alzheimer's disease; myocardial infarction;
 KW haemorrhagic shock; diabetic retinopathy; venous insufficiency; angina;
 KW trauma; protease inhibitor; hypertension; sepsis.

XX Unidentified.

XX WO9946367-A2.

XX 16-SEP-1999.

XX 11-MAR-1999; 99WO-US005247.

XX 11-MAR-1998; 98US-00038894.

XX (CELL-) CELL ACTIVATION INC.

XX (REGC) UNIV CALIFORNIA.

XX (SCRI) SCRIPPS RES INST.

XX Stoughton RB, Schmid-Schonbein GW, Hugli TB, Kistler E;

XX WPI; 1999-580234/49.

XX Use of cell activating compositions in developing products for diagnosis
 PT and treatment of e.g. cardiovascular, inflammatory, autoimmune or
 PT Alzheimer's disease, trauma, arthritis, organ rejection, diabetes, stroke
 PT or ischemia.

XX Example 9; Page 184; 184pp; English.

XX This invention describes a novel method for the use and preparation of
 CC cell activating compositions which involves preparing a cell activating
 CC composition comprising (a) homogenizing pancreatic tissue in buffer at
 CC about neutral or higher pH to produce a homogenate; (b) removing
 CC particulates from the homogenate; (c) optionally incubating the resulting
 CC homogenate, with particulates removed, with a protease; and (d)
 CC fractionating the homogenate and selecting fractions that exhibit cell
 CC activation activity. The methods can be used for improving treatment
 CC outcome or reducing risk of treatment of e.g. cardiovascular disease,
 CC inflammatory disease, trauma, autoimmune diseases, arthritis, organ
 CC rejection, diabetes and diabetic complications, stroke, ischemia,
 CC Alzheimer's disease, myocardial infarction, haemorrhagic shock, diabetic
 CC retinopathy, diabetes, venous insufficiency, unstable angina or trauma.
 CC They can be used in the veterinary treatment of a non-human subject.
 CC Protease inhibitors can be used to lower cell activation resulting from
 CC these diseases and deficiencies. The detection of an elevated level of
 CC hydrogen peroxide can be used to detect an inflammatory condition. An
 CC elevated level of hydrogen peroxide in plasma or whole blood and in the
 CC presence of superoxide dismutase (SOD) indicates leukocyte up regulation,
 CC e.g. indicative of the onset of an acute cardiovascular disorder, such
 CC as disease onset or ischemic complications. An elevated level of hydrogen
 CC peroxide in plasma or whole blood and a low level in the presence of SOD
 CC is indicative of a chronic or immune compromised condition e.g.
 CC hypertension or sepsis. AAAY50201-150334 represent peptides used in the
 CC method of the invention

XX

SQ Sequence 5 AA;

Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FVGLM 5
 |
 |
 |
 |
 Db 1 FFGLM 5

RESULT 15

AAW92660

ID AAW92660 standard; peptide; 5 AA.

XX AC AAW92660;

XX DT 20-MAR-2003 (revised)

XX DT 30-APR-1999 (first entry)

XX DE Human tachykinin agonist beta-amyloid peptide fragment #6.

XX KW Tachykinin agonist; beta-amyloid; inhibition; neurotoxin; treatment;
 XX KW Alzheimer's disease; Down's syndrome; amyloidosis; human;
 XX KW hereditary cerebral haemorrhage; non-inherited congophilic angiopathy.

XX OS Homo sapiens.

XX PN US5876948-A.

XX PD 02-MAR-1999.

XX PF 29-JUL-1991; 91US-00737371.

XX PR 27-JUL-1990; 90US-00559173.

XX PA (CHIL-) CHILDRENS MEDICAL CENT.

XX PI Yankner BA;

XX DR WPI; 1999-189630/16.

XX PT Screening for neurotoxin inhibitors - by testing compounds for their
 effect on beta-amyloid peptide neurotoxic effect on neuronal cells.

XX PS Disclosure; Col 13-14; 28pp; English.

XX CC This invention describes a method for screening compounds for inhibiting
 a neurotoxin. The method involves incubating tachykinin agonists with
 neuronal cells and a beta-amyloid peptide neurotoxin. The methods can be
 used for identifying compounds for treating diseases characterised by an
 undesirable build up of beta-amyloid protein, e.g. Alzheimer's disease,
 Down's syndrome, and the syndromes of hereditary cerebral haemorrhage
 with amyloidosis and non-inherited congophilic angiopathy with cerebral
 haemorrhage. AAW92655-W92731 are tachykinin agonists derived from human
 beta-amyloid peptide fragments. (Updated on 20-MAR-2003 to correct PF
 field.)

SQ Sequence 5 AA;

Query Match 80.0%; Score 20; DB 2; Length 5;
 Best Local Similarity 80.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FVGLM 5
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 Db 1 FFGLM 5

Search completed: March 23, 2005, 14:46:01
 Job time : 121.5 secs

GenCore version 5.1.1.6
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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:50:07 ; Search time 92 Seconds
(without alignments)
17.995 Million cell updates/sec

Title: SEQ2
Perfect score: 25
Sequence: 1 fvglm 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1407402 seqs, 331100923 residues

Total number of hits satisfying chosen parameters: 21937

Minimum DB seq length: 0
Maximum DB seq length: 5

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

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20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	20	80.0	5	9	US-09-265-690C-1
2	20	80.0	5	9	US-09-265-690C-4
3	20	80.0	5	14	US-10-230-133-4
4	20	80.0	5	14	US-10-053-669-1
5	20	80.0	5	14	US-10-053-689-4
6	20	80.0	5	15	US-10-134-187-3
7	20	80.0	5	16	US-10-688-741-3
8	20	80.0	5	16	US-10-695-536-4
9	20	80.0	5	16	US-10-805-881-1
10	20	80.0	5	16	US-10-805-881-4
11	20	80.0	5	17	US-10-497-628-15
12	17	68.0	5	14	US-10-168-789A-32
13	17	68.0	5	17	US-10-497-628-16

14	16	64.0	4	8	US-08-484-409-30	Sequence 30, Appl
15	16	64.0	4	13	US-10-033-026-2	Sequence 2, Appl
16	16	64.0	5	10	US-09-992-124A-14	Sequence 14, Appl
17	16	64.0	5	14	US-10-168-789A-39	Sequence 39, Appl
18	16	64.0	5	17	US-10-641-286-27	Sequence 27, Appl
19	15	60.0	3	14	US-10-230-133-2	Sequence 2, Appl
20	15	60.0	3	16	US-10-695-536-2	Sequence 2, Appl
21	15	60.0	4	9	US-09-265-690C-2	Sequence 2, Appl
22	15	60.0	4	14	US-10-230-133-3	Sequence 3, Appl
23	15	60.0	4	14	US-10-053-669-2	Sequence 2, Appl
24	15	60.0	4	16	US-10-695-536-3	Sequence 3, Appl
25	15	60.0	4	16	US-10-805-881-2	Sequence 2, Appl
26	15	60.0	4	17	US-10-497-628-2	Sequence 2, Appl
27	15	60.0	4	17	US-10-821-240A-270	Sequence 270, App
28	15	60.0	5	10	US-09-992-124A-5	Sequence 5, Appl
29	15	60.0	5	15	US-10-243-613-79	Sequence 79, Appl
30	15	60.0	5	16	US-10-128-520-360	Sequence 360, App
31	15	60.0	5	16	US-10-346-737A-30	Sequence 30, Appl
32	15	60.0	5	17	US-10-497-628-17	Sequence 17, Appl
33	15	60.0	5	17	US-10-641-286-13	Sequence 13, Appl
34	14	56.0	4	9	US-09-943-123-24	Sequence 24, Appl
35	14	56.0	4	14	US-10-087-402-10	Sequence 10, Appl
36	14	56.0	4	14	US-10-361-290-12	Sequence 12, Appl
37	14	56.0	4	17	US-10-712-359A-24	Sequence 24, Appl
38	14	56.0	4	17	US-10-821-240A-244	Sequence 244, App
39	14	56.0	5	13	US-10-014-716-28	Sequence 28, Appl
40	14	56.0	5	14	US-10-190-951-28	Sequence 28, Appl
41	14	56.0	5	14	US-10-190-082-680	Sequence 680, App
42	14	56.0	5	15	US-10-299-867-67	Sequence 67, Appl
43	14	56.0	5	15	US-10-454-566-10	Sequence 10, Appl
44	14	56.0	5	15	US-10-436-549-565	Sequence 565, App
45	14	56.0	5	16	US-10-712-425-565	Sequence 565, App

ALIGNMENTS

RESULT 1
US-09-265-690C-1
; Sequence 1, Application US/09265690C
; Publication No. US20010051345A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound M
; FILE OF INVENTION: For Disease Diagnosis
; FILE REFERENCE: 1427001
; CURRENT APPLICATION NUMBER: US/09/265,690C
; CURRENT FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
US-09-265-690C-1

Query Match 80.0%; Score 20; DB 9; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
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DB 1 FVGLM 5

RESULT 2
US-09-265-690C-4
; Sequence 4, Application US/09265690C
; Publication No. US20010051345A1

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; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
; TITLE OF INVENTION: for Disease Diagnosis
; FILE REFERENCE: 1427001
; CURRENT APPLICATION NUMBER: US/09/265.690C
; CURRENT FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
; NAME/KEY: VARIANT
; LOCATION: (2)..(2)
; OTHER INFORMATION: "X" may be either Phe or Val.
US-09-265-690C-4

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Query Match      80.0%; Score 20; DB 9; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db      1 FXGLM 5

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RESULT 3
US-10-230-133-4
; Sequence 4, Application US/10230133
; Publication No. US20030040625A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
; TITLE OF INVENTION: methods for treatment of abnormal physiological states
; FILE REFERENCE: 2892-106
; CURRENT APPLICATION NUMBER: US/10/230.133
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 09/635,266
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
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; OTHER INFORMATION: "X" may be either F or V.
US-10-230-133-4

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Query Match      80.0%; Score 20; DB 14; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db      1 FXGLM 5

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RESULT 4
US-10-053-669-1
; Sequence 1, Application US/10053669
; Publication No. US20030077659A1

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; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound M
; TITLE OF INVENTION: for Disease Diagnosis
; FILE REFERENCE: N1427-005
; CURRENT APPLICATION NUMBER: US/10/053.669
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: 09/265,690
; PRIOR FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
; OTHER INFORMATION: "X" may be either Phe or Val.
US-10-053-669-1

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Query Match      80.0%; Score 20; DB 14; Length 5;
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Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db      1 FXGLM 5

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RESULT 5
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; Publication No. US20030077659A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound M
; TITLE OF INVENTION: for Disease Diagnosis
; FILE REFERENCE: N1427-005
; CURRENT APPLICATION NUMBER: US/10/053.669
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: 09/265,690
; PRIOR FILING DATE: 1999-03-10
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; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
; NAME/KEY: VARIANT
; LOCATION: (2)..(2)
; OTHER INFORMATION: "X" may be either Phe or Val.
US-10-053-669-4

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Query Match      80.0%; Score 20; DB 14; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY      1 FVGLM 5
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Db      1 FXGLM 5

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RESULT 6
US-10-134-187-3
; Sequence 3, Application US/10134187
; Publication No. US20030202981A1
; GENERAL INFORMATION:
; APPLICANT: Kream, Richard M.

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; APPLICANT: Kream, Richard M.
; APPLICANT: Kream, Richard M.
; TITLE OF INVENTION: Chimeric Hybrid Analgesics
; FILE REFERENCE: Kream
; CURRENT APPLICATION NUMBER: US/10/134,187
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 5
; TYPE: PRT
; ORGANISM: mammalian
US-10-134-187-3

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Query Match      80.0%; Score 20; DB 15; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
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Qy 1 FVGLM 5
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Db 1 FFGLM 5

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RESULT 7
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; GENERAL INFORMATION:
; APPLICANT: Kream, Richard M.
; APPLICANT: Kream, Richard M.
; APPLICANT: Kream, Richard M.
; TITLE OF INVENTION: Method Of Inhibiting Opioid Tolerance Development With Chimeric H
; TITLE OF INVENTION: Analgesics
; FILE REFERENCE: Kream
; CURRENT APPLICATION NUMBER: US/10/688,741
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 5
; TYPE: PRT
; ORGANISM: mammalian
US-10-688-741-3

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Query Match      80.0%; Score 20; DB 16; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 1 FVGLM 5
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Db 1 FFGLM 5

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RESULT 8
US-10-695-536-4
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; Publication No. US20040110692A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert Clifton
; TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents
; TITLE OF INVENTION: and Methods for Treatment of Abnormal Physiological States
; FILE REFERENCE: 800812-0008
; CURRENT APPLICATION NUMBER: US/10/695,536
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 10/230,133
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US 09/635,266
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; TYPE: PRT

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; ORGANISM: Homo sapiens
; FEATURE:
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US-10-695-536-4

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Query Match      80.0%; Score 20; DB 16; Length 5;
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Qy 1 FVGLM 5
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Db 1 FFGLM 5

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RESULT 9
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; Publication No. US20040171093A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert C.
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
; TITLE OF INVENTION: Magnesium for Disease Diagnosis
; FILE REFERENCE: 800812-0005
; CURRENT APPLICATION NUMBER: US/10/805,881
; CURRENT FILING DATE: 2004-03-22
; PRIOR APPLICATION NUMBER: US 10/053,669
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 10/695,536
; PRIOR FILING DATE: 2003-10-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
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; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
US-10-805-881-1

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Query Match      80.0%; Score 20; DB 16; Length 5;
Best Local Similarity 80.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 1 FVGLM 5
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Db 1 FFGLM 5

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RESULT 10
US-10-805-881-4
; Sequence 4, Application US/10805881
; Publication No. US20040171093A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert C.
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
; TITLE OF INVENTION: Magnesium for Disease Diagnosis
; FILE REFERENCE: 800812-0005
; CURRENT APPLICATION NUMBER: US/10/805,881
; CURRENT FILING DATE: 2004-03-22
; PRIOR APPLICATION NUMBER: US 10/053,669
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 10/695,536
; PRIOR FILING DATE: 2003-10-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2

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; ORGANISM: Homo sapiens
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; LOCATION: (2)..(2)
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; LOCATION: (5)..(5)
; OTHER INFORMATION: AMIDATION
US-10-805-881-4

Query Match
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Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 FXGLM 5

RESULT 11
US-10-497-628-15
; Sequence 15, Application US/10497628
; Publication No. US2005009752A1
; GENERAL INFORMATION:
; APPLICANT: Teruo Nishida
; APPLICANT: Masatsugu Nakamura
; TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
; FILE REFERENCE: 04355/HG
; CURRENT APPLICATION NUMBER: US/10/497,628
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: JP 2001-368103
; PRIOR FILING DATE: 2001-12-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
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; TYPE: PRT
; ORGANISM: Human
US-10-497-628-15

Query Match
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QY 1 FVGLM 5
Db 1 FVGLM 5

RESULT 12
US-10-168-789A-32
; Sequence 32, Application US/10168789A
; Publication No. US20030148943A1
; GENERAL INFORMATION:
; APPLICANT: ITOH, Yasuaki
; APPLICANT: NISHI, Kazunori
; APPLICANT: KITADA, Chieko
; APPLICANT: INATOMI, No. US20030148943A1uhiro
; TITLE OF INVENTION: No. US20030148943A1el Tachykinin-like Polypeptides and Use Thereof
; FILE REFERENCE: 2680USOP
; CURRENT APPLICATION NUMBER: US/10/168.789A
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: PCT/JP00/09083
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: JP 11-362638
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: JP 12-066714
; PRIOR FILING DATE: 1999-03-10

; NUMBER OF SEQ ID NOS: 64
; SEQ ID NO 32
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Polypeptide
; NAME/KEY: PEPTIDE
; LOCATION: (02)..(02)
; OTHER INFORMATION: Xaa is any amino acid
US-10-168-789A-32

Query Match
Best Local Similarity 60.0%; Score 17; DB 14; Length 5;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 FXGLL 5

RESULT 13
US-10-497-628-16
; Sequence 16, Application US/10497628
; Publication No. US2005009752A1
; GENERAL INFORMATION:
; APPLICANT: Teruo Nishida
; APPLICANT: Makoto Inui
; APPLICANT: Masatsugu Nakamura
; TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
; FILE REFERENCE: 04355/HG
; CURRENT APPLICATION NUMBER: US/10/497,628
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: JP 2001-368103
; PRIOR FILING DATE: 2001-12-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Human
US-10-497-628-16

Query Match
Best Local Similarity 60.0%; Score 17; DB 17; Length 5;
Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 YFGLM 5

RESULT 14
US-08-484-409-30
; Sequence 30, Application US/08484409
; Publication No. US20020076412A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Lawrence
; APPLICANT: Zamvil, Scott
; TITLE OF INVENTION: METHODS FOR MODULATING THE IMMUNE SYSTEM
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

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; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,409
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 690068.409C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
;
US-08-484-409-30

Query Match 64.0%; Score 16; DB 8; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FVG 3
Db 2 FVG 4

RESULT 15
US-10-033-026-2
; Sequence 2, Application US/10033026
; Publication No. US20020147309A1
; GENERAL INFORMATION:
; APPLICANT: Lipescombe, Diane
; APPLICANT: Schorge, Stephanie
; TITLE OF INVENTION: HUMAN N-TYPE CALCIUM CHANNEL ISOFORM AND USES THEREOF
; FILE REFERENCE: B1055/7000
; CURRENT APPLICATION NUMBER: US/10/033,026
; CURRENT FILING DATE: 2001-12-28
; PRIOR APPLICATION NUMBER: US 09/268,163
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: US 60/077,901
; PRIOR FILING DATE: 1998-03-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
;
US-10-033-026-2

Query Match 64.0%; Score 16; DB 13; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FVG 3
Db 2 FVG 4

Search completed: March 23, 2005, 15:07:06
Job time : 93 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:37:21 ; Search time 30 Seconds
(without alignments)
12.442 Million cell updates/sec

Title: SEQ2

Perfect score: 25

Sequence: 1 fvglm 5

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 27945

Minimum DB seq length: 0

Maximum DB seq length: 5

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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5: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	80.0	5	1	US-07-753-909B-3
2	20	80.0	5	1	US-07-934-553-2
3	20	80.0	5	1	US-08-269-288-1
4	20	80.0	5	1	US-08-225-474-2
5	20	80.0	5	1	US-08-391-910-1
6	20	80.0	5	1	US-08-418-994-1
7	20	80.0	5	1	US-08-391-814-1
8	20	80.0	5	1	US-08-441-591-61
9	20	80.0	5	1	US-08-303-362A-61
10	20	80.0	5	1	US-08-462-415-1
11	20	80.0	5	1	US-08-463-874-1
12	20	80.0	5	1	US-08-444-135-1
13	20	80.0	5	1	US-08-318-391-1
14	20	80.0	5	2	US-07-737-371B-6
15	20	80.0	5	3	US-08-257-966-1
16	20	80.0	5	3	US-09-265-690C-1
17	20	80.0	5	3	US-09-265-690C-4
18	20	80.0	5	4	US-08-153-847-1
19	20	80.0	5	4	US-09-635-266-4
20	20	80.0	5	4	US-10-230-133-4
21	20	80.0	5	5	PCT-US95-05600-78
22	19	76.0	5	1	US-07-690-284A-6
23	17	68.0	5	2	US-07-737-371B-48
24	16	64.0	4	1	US-08-127-904-2
25	16	64.0	4	1	US-08-127-904-12
26	16	64.0	4	3	US-08-638-407-24
27	16	64.0	4	3	US-09-264-709A-11

28	16	64.0	4	3	US-09-264-709A-33	Sequence 33, Appl
29	16	64.0	4	3	US-09-264-709A-35	Sequence 35, Appl
30	16	64.0	4	3	US-09-268-163-2	Sequence 2, Appl
31	16	64.0	4	5	PCT-US94-10475-2	Sequence 2, Appl
32	16	64.0	4	5	PCT-US94-10475-12	Sequence 12, Appl
33	16	64.0	4	5	US-07-690-284A-2	Sequence 2, Appl
34	16	64.0	5	1	US-08-127-904-1	Sequence 1, Appl
35	16	64.0	5	3	US-09-264-709A-27	Sequence 27, Appl
36	16	64.0	5	4	US-09-608-892-16	Sequence 16, Appl
37	16	64.0	5	5	PCT-US94-10475-1	Sequence 1, Appl
38	15	60.0	3	4	US-09-635-266-2	Sequence 2, Appl
39	15	60.0	3	4	US-10-230-133-2	Sequence 2, Appl
40	15	60.0	4	1	US-08-127-904-8	Sequence 8, Appl
41	15	60.0	4	1	US-08-441-591-63	Sequence 63, Appl
42	15	60.0	4	1	US-08-303-362A-63	Sequence 63, Appl
43	15	60.0	4	2	US-08-070-301-8	Sequence 8, Appl
44	15	60.0	4	3	US-09-265-690C-2	Sequence 2, Appl
45	15	60.0	4	4	US-09-635-266-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-07-753-909B-3
; Sequence 3, Application US/07753909B
; Patent No. 5304632
; GENERAL INFORMATION:
; APPLICANT: Vaudry, Hubert
; APPLICANT: Conlon, Michael J.
; TITLE OF INVENTION: Neuropeptides of the Tachykinin Family
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Zarley, McKee, Thomte, Voorhees, and Sease
; STREET: 801 Grand, Suite 3200
; CITY: Des Moines
; STATE: Iowa
; COUNTRY: United States
; ZIP: 50309
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07753,909B
; FILING DATE: 19910903
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 9106759
; FILING DATE: 04-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Sease, Edmund J.
; REGISTRATION NUMBER: 24,741
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (515)-288-3667
; TELEFAX: (515)-288-1338
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: C-terminal
; ORIGINAL SOURCE:
; ORGANISM: Rana ridibunda
; DEVELOPMENTAL STAGE: adult
; TISSUE TYPE: brain
; US-07-753-909B-3

Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 FXGLM 5

RESULT 2

US-07-934-553-2
; Sequence 2, Application US/07934553
; Patent No. 5314690
; GENERAL INFORMATION:
; APPLICANT: PATTERSON, ROY
; TITLE OF INVENTION: METHOD AND COMPOSITION FOR REDUCING IGE
; TITLE OF INVENTION: ANTIBODIES TO SPECIFIC ALLERGENS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSER: TILTON, FALLON, LUNGUMUS & CHESTNUT
; STREET: 100 SOUTH WACKER DRIVE
; CITY: CHICAGO
; STATE: ILLINOIS
; COUNTRY: USA
; ZIP: 60606-4002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/934,553
; FILING DATE: 19920821
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/705,071
; FILING DATE: 24-MAY-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: FENTRESS, SUSAN B
; REGISTRATION/DOCKET NUMBER: NU-9033CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/456-8000
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-07-934-553-2

Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 FXGLM 5

RESULT 3

US-08-269-288-1
; Sequence 1, Application US/08269288
; Patent No. 5491140
; GENERAL INFORMATION:
; APPLICANT: Bruns, Robert F.
; APPLICANT: Gehlert, Donald R.
; APPLICANT: Howbert, James J.
; APPLICANT: Lunn, William H.W.
; TITLE OF INVENTION: NAPHTHYL TACHYKININ RECEPTOR ANTAGONISTS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Eli Lilly and Company

STREET: Lilly Corporate Center/1104
CITY: Indianapolis
STATE: Indiana
COUNTRY: United States of America
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/269,288
FILING DATE:

CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Gaylo, Paul J.
REGISTRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-9715
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-269-288-1

Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
Db 1 FXGLM 5

RESULT 4

US-08-225-474-2
; Sequence 2, Application US/08225474
; Patent No. 5560915
; GENERAL INFORMATION:
; APPLICANT: Patterson, Roy
; APPLICANT: Harris, Kathleen E.
; TITLE OF INVENTION: Method and Composition for Treating
; TITLE OF INVENTION: IGE Mediated Allergies
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Tilton, Fallon, Lungmus & Chestnut
; STREET: 100 S. Wacker Drive, Suite 960
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-4002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/225,474
; FILING DATE:

CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/934,553
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/705,071
FILING DATE: 24-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Tilton, Timothy L.

REGISTRATION NUMBER: 16,926
 REFERENCE/DOCKET NUMBER: NU 9033-CIP2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (312)-456-8000
 TELEFAX: (312)-456-7776
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: peptide
 US-08-225-474-2

Query Match 80.0%; Score 20; DB 1; Length 5;
 Best Local Similarity 80.0%; Pred. No. 4.1e+05;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 DB 1 FFGLM 5

RESULT 5
 US-08-391-910-1
 ; Sequence 1, Application US/08391910
 ; Patent No. 5563133
 ; GENERAL INFORMATION:
 ; APPLICANT: Hipskind, Philip A.
 ; TITLE OF INVENTION: HEXAMETHYLENEMINYL TACHYKININ RECEPTOR
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Eli Lilly and Company
 ; STREET: Lilly Corporate Center
 ; CITY: Indianapolis
 ; STATE: Indiana
 ; COUNTRY: United States of America
 ; ZIP: 46285

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/391,910
 FILING DATE:
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: Gaylo, Paul J.
 REGISTRATION NUMBER: 36,808
 REFERENCE/DOCKET NUMBER: X-9979
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (317) 276-0756
 TELEFAX: (317) 276-3861
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-391-910-1

Query Match 80.0%; Score 20; DB 1; Length 5;
 Best Local Similarity 80.0%; Pred. No. 4.1e+05;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 DB 1 FXGLM 5

RESULT 6
 US-08-418-994-1
 ; Sequence 1, Application US/08418994
 ; Patent No. 5565568
 ; GENERAL INFORMATION:
 ; APPLICANT: Cho, Sung-Yong S.
 ; APPLICANT: Hipskind, Philip A.
 ; APPLICANT: Howbert, J. J.
 ; APPLICANT: Muehl, Brian S.
 ; APPLICANT: Nixon, James A.
 ; TITLE OF INVENTION: 2-ACYLAMINOPROPANAMIDES AS TACHYKININ
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Eli Lilly and Company
 ; STREET: Lilly Corporate Center
 ; CITY: Indianapolis
 ; STATE: Indiana
 ; COUNTRY: United States of America
 ; ZIP: 46285

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/418,994
 FILING DATE:
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Gaylo, Paul J.
 REGISTRATION NUMBER: 36,808
 REFERENCE/DOCKET NUMBER: X-8252
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (317) 276-0756
 TELEFAX: (317) 276-3861
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-418-994-1

Query Match 80.0%; Score 20; DB 1; Length 5;
 Best Local Similarity 80.0%; Pred. No. 4.1e+05;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
 DB 1 FXGLM 5

RESULT 7
 US-08-391-814-1
 ; Sequence 1, Application US/08391814
 ; Patent No. 5607947
 ; GENERAL INFORMATION:
 ; APPLICANT: Hipskind, Philip A.
 ; TITLE OF INVENTION: PYRROLIDINYL TACHYKININ RECEPTOR
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Eli Lilly and Company
 ; STREET: Lilly Corporate Center
 ; CITY: Indianapolis
 ; STATE: Indiana
 ; COUNTRY: United States of America
 ; ZIP: 46285

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/391,814
FILING DATE:
ATTORNEY/AGENT INFORMATION:
CLASSIFICATION: 514
NAME: Gaylo, Paul J.
REGISTRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-9965
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-391-814-1

Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
| | | |
Db 1 FXGLM 5

RESULT 8

US-08-441-591-61
Sequence 61, Application US/08441591
Patent No. 5637682
GENERAL INFORMATION:
APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: TO THE TACHYKININ
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,591
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/303,362
FILING DATE: 9-SEPTEMBER-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/931,473
FILING DATE: 17-AUGUST-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/117,991
FILING DATE: 8-SEPTEMBER 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624
FILING DATE: 21-OCTOBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: Barry J. Swanson
REGISTRATION NUMBER: 33,215
REFERENCE/DOCKET NUMBER: NEX21/C
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 793-3333
TELEFAX: (303) 793-3433
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 5
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: Xaa
LOCATION: 2
OTHER INFORMATION: AROMATIC OR ALIPHATIC
OTHER INFORMATION: AMINO ACID
US-08-441-591-61

Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
| | | |
Db 1 FXGLM 5

RESULT 9

US-08-303-362A-61
Sequence 61, Application US/08303362A
Patent No. 5648214
GENERAL INFORMATION:
APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
TITLE OF INVENTION: HIGH-AFFINITY
TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
TITLE OF INVENTION: TO THE TACHYKININ
TITLE OF INVENTION: SUBSTANCE P
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 E. Prentice Avenue, Suite 200
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,362A
FILING DATE: 9-SEPTEMBER-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/714,131
FILING DATE: 10-JUNE-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/931,473
FILING DATE: 17-AUGUST-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/117,991
FILING DATE: 8-SEPTEMBER 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/536,428
FILING DATE: 11-JUNE-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/964,624

;; FILING DATE: 21-OCTOBER-1992
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Barry J. Swanson
;; REGISTRATION NUMBER: 33,215
;; REFERENCE/DOCKET NUMBER: NEX21
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (303) 793-3333
;; TELEFAX: (303) 793-3433
;; INFORMATION FOR SEQ ID NO: 61:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 5
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; FEATURE:
;; NAME/KEY: Xaa
;; LOCATION: 2
;; OTHER INFORMATION: AROMATIC OR ALIPHATIC
;; OTHER INFORMATION: AMINO ACID
US-08-303-362A-61

Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
| | | |
Db 1 FXGLM 5

RESULT 10
US-08-462-415-1
; Sequence 1, Application US/08462415
; Patent No. 5670499
; GENERAL INFORMATION:
; APPLICANT: Cho, Sung Y.
; APPLICANT: Crowell, Thomas A.
; APPLICANT: Gitter, Bruce D.
; APPLICANT: Hipskind, Philip A.
; APPLICANT: Howbert, Jeffrey J.
; APPLICANT: Krushinski, Joseph H.
; APPLICANT: Lobb, Karen L.
; APPLICANT: Muehl, Brian S.
; APPLICANT: Nixon, James A.
; TITLE OF INVENTION: HETEROCYCLIC TACHYKININ RECEPTOR
; TITLE OF INVENTION: ANTAGONISTS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Eli Lilly and Company
; STREET: Lilly Corporate Center/Patent Division
; CITY: Indianapolis
; STATE: IN
; COUNTRY: US
; ZIP: 46285
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,415
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Gaylo, Paul J.
; REGISTRATION NUMBER: 36,808
; REFERENCE/DOCKET NUMBER: X8849B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 317-276-0756
; TELEFAX: 317-276-3861
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids

;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
US-08-462-415-1
Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
| | | |
Db 1 FXGLM 5

RESULT 11
US-08-463-874-1
; Sequence 1, Application US/08463874
; Patent No. 5684033
; GENERAL INFORMATION:
; APPLICANT: Cho, Sung Y.
; APPLICANT: Crowell, Thomas A.
; APPLICANT: Gitter, Bruce D.
; APPLICANT: Hipskind, Philip A.
; APPLICANT: Howbert, Jeffrey J.
; APPLICANT: Krushinski, Joseph H.
; APPLICANT: Lobb, Karen L.
; APPLICANT: Muehl, Brian S.
; APPLICANT: Nixon, James A.
; TITLE OF INVENTION: NON-PEPTIDE TACHYKININ RECEPTOR
; TITLE OF INVENTION: ANTAGONISTS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Eli Lilly and Company
; STREET: Lilly Corporate Center/Patent Division
; CITY: Indianapolis
; STATE: IN
; COUNTRY: US
; ZIP: 46285
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,874
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Gaylo, Paul J.
; REGISTRATION NUMBER: 36,808
; REFERENCE/DOCKET NUMBER: X8849C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 317-276-0756
; TELEFAX: 317-276-3861
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-463-874-1

Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
| | | |
Db 1 FXGLM 5

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RESULT 12
US-08-444-135-1
; Sequence 1, Application US/08444135
; Patent No. 5723575
; GENERAL INFORMATION:
; APPLICANT: Gilon, Chaim
; APPLICANT: Zelinger, Zvi
; APPLICANT: Byk, Gerardo
; TITLE OF INVENTION: Backbone Cyclic Peptides, Processes For
; TITLE OF INVENTION: Their Preparation and Pharmaceutical Compositions
; TITLE OF INVENTION: Containing Them
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/444,135
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/955,380
; FILING DATE: 01-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Jarkovsky, Issac
; REGISTRATION NUMBER: 22,713
; REFERENCE/DOCKET NUMBER: 7754-003-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 790-9090
; TELEX: 66141 PENNIE
; TELEFAX: 212 869-8864/9741
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 2
; OTHER INFORMATION: /label=Xaa
; OTHER INFORMATION: /note="Xaa = Phe or Val"
US-08-444-135-1
Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FVGLM 5
Db 1 FXGLM 5

RESULT 13
US-08-318-391-1
; Sequence 1, Application US/08318391
; Patent No. 574482
; GENERAL INFORMATION:
; APPLICANT: Cohen, Marlene L.
; APPLICANT: Johnson, Kirk W.
; APPLICANT: Prebus, Lee A.
; TITLE OF INVENTION: USE OF A SEROTONIN AGONIST IN
; TITLE OF INVENTION: COMBINATION WITH A TACHYKININ RECEPTOR ANTAGONIST IN THE
; TITLE OF INVENTION: TREATMENT OR PREVENTION OF MIGRAINE

```

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; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Eli Lilly and Company
; STREET: Lilly Corporate Center
; CITY: Indianapolis
; STATE: Indiana
; COUNTRY: United States of America
; ZIP: 46285
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/318,391
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Gaylo, Paul J.
; REGISTRATION NUMBER: 36,808
; REFERENCE/DOCKET NUMBER: X-9664
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 276-0756
; TELEFAX: (317) 276-3861
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-318-391-1
Query Match 80.0%; Score 20; DB 1; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FVGLM 5
Db 1 FXGLM 5

RESULT 14
US-07-737-371E-6
; Sequence 6, Application US/07737371E
; Patent No. 5876948
; GENERAL INFORMATION:
; APPLICANT: Yankner, Bruce A.
; TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY
; TITLE OF INVENTION: NEUROTOXIN INHIBITORS (AS AMENDED)
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/737,371E
; FILING DATE: 29-JUL-1991
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/559,172
; FILING DATE: 27-JUL-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Freeman, John W.
; REGISTRATION NUMBER: 29,066

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REFERENCE/DOCKET NUMBER: 00108/028002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-737-371B-6

Query Match 80.0%; Score 20; DB 2; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
DB 1 FVGLM 5

RESULT 15
US-08-257-966-1
Sequence 1, Application US/08257966
Patent No. 6175013
GENERAL INFORMATION:
APPLICANT: Hipskind, Philip A.
APPLICANT: Howbert, James J.
APPLICANT: Muehl, Brian S.
TITLE OF INVENTION: IMIDAZOLINYL TACHYKININ RECEPTOR
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Eli Lilly and Company
STREET: Lilly Corporate Center/1104
CITY: Indianapolis
STATE: Indiana
COUNTRY: United States of America
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/257,966
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Gaylo, Paul J.
REGISTRATION NUMBER: 36,808
REFERENCE/DOCKET NUMBER: X-9197
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 276-0756
TELEFAX: (317) 276-3861
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-257-966-1

Query Match 80.0%; Score 20; DB 3; Length 5;
Best Local Similarity 80.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FVGLM 5
DB 1 FXGLM 5

Search completed: March 23, 2005, 14:50:59
Job time : 31 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 23, 2005, 15:03:13 ; Search time 38 seconds
(without alignments)
10.128 Million cell updates/sec

Title: SEQ3

Perfect score: 21

Sequence: 1 fglm 4

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 86

Minimum DB seq length: 0

Maximum DB seq length: 4

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR1.*

2: PIR2.*

3: PIR3.*

4: PIR4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	10	47.6	4	2	PT0240
2	10	47.6	4	2	A53284
3	8	38.1	4	2	PT0633
4	7	33.3	3	3	B23751
5	7	33.3	4	2	B4823
6	7	33.3	4	2	B53284
7	6	28.6	3	3	PT0636
8	6	28.6	3	3	PT0571
9	6	28.6	3	3	S68328
10	6	28.6	3	3	GKHU
11	6	28.6	3	3	A50898
12	6	28.6	3	3	A23751
13	6	28.6	4	1	ECXAA
14	6	28.6	4	2	D41654
15	6	28.6	4	2	S3508
16	6	28.6	4	2	T30569
17	6	28.6	4	2	I38888
18	6	28.6	4	2	A25844
19	6	28.6	4	2	A34626
20	6	28.6	4	2	S39390
21	6	28.6	4	2	S43959
22	6	28.6	4	2	S47552
23	6	28.6	4	2	S09478
24	6	28.6	4	2	PL0140
25	6	28.6	4	2	JQ1273
26	6	28.6	4	2	A35779
27	6	28.6	4	2	A60418
28	6	28.6	4	2	A32480
29	6	28.6	4	2	PT0271

30	6	28.6	4	2	PT0711	T-cell receptor be
31	6	28.6	4	2	PT0698	T-cell receptor be
32	6	28.6	4	2	PT0677	T-cell receptor be
33	6	28.6	4	2	PT0706	T-cell receptor be
34	6	28.6	4	2	PT0675	T-cell receptor be
35	6	28.6	4	2	PT0721	T-cell receptor be
36	6	28.6	4	2	PT0566	T-cell receptor be
37	6	28.6	4	2	A32039	tyrosine-melanocyt
38	6	28.6	4	2	ECNK	angiotensin-conver
39	5	23.8	3	3	PQ0010	histidinol dehydro
40	5	23.8	3	3	SI3894	gene p20K protein
41	5	23.8	3	3	I50412	T-cell receptor be
42	5	23.8	3	3	PT0578	tyrosine protein k
43	5	23.8	3	3	I78890	cytochrome-c oxida
44	5	23.8	3	3	TI3892	thyroglobulin - do
45	5	23.8	4	2	SI8401	

ALIGNMENTS

RESULT 1

PT0240

Ig heavy chain CRD3 region (clone 2-100B) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996

C;Accession: PT0240

R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.

J. Exp. Med. 173, 395-407, 1991

A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and j

A;Reference number: PT0222; MUID:91108337; PMID:1899102

A;Accession: PT0240

A;Molecule type: DNA

A;Residues: 1-4 <YAM>

A;Experimental source: B lymphocyte

C;Keywords: heterotetramer; immunoglobulin

Query Match 47.6%; Score 10; DB 2; Length 4;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GL 3

Db 3 GL 4

RESULT 2

A53284

T-cell receptor beta 2 chain D' region, Dbeta2 - rabbit

C;Species: Oryctolagus cuniculus (domestic rabbit)

C;Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999

C;Accession: A53284

R;Harindranath, N.; Alexander, C.B.; Mage, R.G.

Mol. Immunol. 28, 881-888, 1991

A;Title: Evolutionarily conserved organization and sequences of germline diversity and j

A;Reference number: A53284; MUID:91342695; PMID:1678859

A;Accession: A53284

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-4 <HAR>

A;Cross-references: GB:S60737; NID:g233916; PIDN:AAB19517.1; PID:g233917

A;Note: Sequence extracted from NCBI backbone (NCBIN:60737, NCBIIP:60739)

C;Keywords: T-cell receptor

Query Match 47.6%; Score 10; DB 2; Length 4;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GL 3

Db 1 GL 2

RESULT 3
PT0633
T-cell receptor beta chain V-D-J region (120-2C) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C>Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
C:Accession: PT0633
R:Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A:Reference number: PT0509; MUID:91277601; PMID:1711558
A:Accession: PT0633
A>Status: translation not shown
A:Molecule type: mRNA
A:Residues: 1-4 <P>
A:Cross-references: UNIPROT:O8BIV7
A:Experimental source: newborn thymus, strain BALB/c
C:Keywords: T-cell receptor

Query Match 38.1%; Score 8; DB 2; Length 4;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GL 3
|:
Db 3 GI 4

RESULT 4
B23751
spinal cord peptide SCP-5 - pig
C:Species: Sus scrofa domestica (domestic pig)
C>Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Mar-2004
C:Accession: B23751
R:Hsi, K.L.; Chen, R.L.; Chen, Z.G.; Zhang, H.L.; Lu, Y.A.; Guo, S.Y.; Wu, S.X.; Tsou, K.
Arch. Biochem. Biophys. 240, 178-183, 1985
A:Reference number: A23751; MUID:85250425; PMID:4015098
A:Accession: B23751
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-3 <HS>

Query Match 33.3%; Score 7; DB 3; Length 3;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LM 4
|:
Db 1 NM 2

RESULT 5
E44823
synaptosomal-associated protein SNAP-25 peptide 1 - rabbit (fragment)
N:Alternate names: superprotein peptide 1
C:Species: Oryctolagus cuniculus (domestic rabbit)
C>Date: 31-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 15-Jun-1996
C:Accession: E44823
R:Loewy, A.; Liu, W.S.; Baittinger, C.; Willard, M.B.
J. Neurosci. 11, 3412-3421, 1991
A:Title: The major 35S-methionine-labeled rapidly transported protein (superprotein) is
A:Reference number: A44823; MUID:92044785; PMID:1941090
A:Accession: E44823
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-4 <LO>
A:Cross-references: visual tissue
A:Experimental source: visual tissue
A>Note: sequence extracted from NCBI backbone (NCBIP:64247)
C:Keywords: membrane trafficking

Query Match 33.3%; Score 7; DB 2; Length 4;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LM 4
|:
Db 1 IM 2

RESULT 6
B53284
T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
C:Species: Oryctolagus cuniculus (domestic rabbit)
C>Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999
C:Accession: B53284
R:Harindranath, N.; Alexander, C.B.; Mage, R.G.
Mol. Immunol. 28, 881-888, 1991
A:Title: Evolutionarily conserved organization and sequences of germline diversity and J
A:Reference number: A53284; MUID:91342695; PMID:1678859
A:Accession: B53284
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-4 <HAR>
A:Cross-references: GB:S60737; NID:9233916; PIDN:AAB19518.1; PID:9233918
A>Note: sequence extracted from NCBI backbone (NCBIN:60737, NCBIP:60738)
C:Keywords: T-cell receptor

Query Match 33.3%; Score 7; DB 2; Length 4;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PG 2
|:
Db 2 WG 3

RESULT 7
PT0636
T-cell receptor beta chain V-D-J region (100-2AT) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C>Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
C:Accession: PT0636
R:Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A:Reference number: PT0509; MUID:91277601; PMID:1711558
A:Accession: PT0636
A>Status: translation not shown
A:Molecule type: mRNA
A:Residues: 1-3 <P>
A:Experimental source: newborn thymus, strain BALB/c
C:Keywords: T-cell receptor

Query Match 28.6%; Score 6; DB 3; Length 3;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 G 2
|:
Db 3 G 3

RESULT 8
PT0571
T-cell receptor beta chain V-D-J region (141-1CM) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C>Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
C:Accession: PT0571
R:Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A:Reference number: PT0509; MUID:91277601; PMID:1711558
A:Accession: PT0571
A>Status: translation not shown
A:Molecule type: mRNA
A:Residues: 1-3 <P>
A:Experimental source: day 19 fetal thymus, strain BALB/c

C;Keywords: T-cell receptor

Query Match 28.6%; Score 6; DB 3; Length 3;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 DB 3 G 3

RESULT 9

S68328
 C;Species: Molgula manhattensis (fragment)
 C;Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
 C;Accession: S68328
 R;Taylor, S.W.; Ross, M.M.; Waite, J.H.
 Arch. Biochem. Biophys. 324, 228-240, 1995
 A;Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing polypeptides from the blood cell protein A - Molgula manhattensis (fragment)
 A;Reference number: S68325; PMID:8554314
 A;Accession: S68328
 A;Molecule type: protein
 A;Residues: 1-3 <TR>

Query Match 28.6%; Score 6; DB 3; Length 3;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 F 1
 DB 2 F 2

RESULT 10

GKHU
 growth-modulating peptide - human
 C;Species: Homo sapiens (man)
 C;Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Mar-2004
 C;Accession: A01421
 R;Schlesinger, D.H.; Pickart, L.; Thaler, M.M.
 Experientia 33, 324-325, 1977
 A;Title: Growth-modulating serum tripeptide is glycyl-histidyl-lysine.
 A;Reference number: A01421; PMID:77162369; PMID:858356
 A;Accession: A01421
 A;Molecule type: protein
 A;Residues: 1-3 <SCH>
 A;Note: this serum tripeptide is found to stimulate growth of some cell types and to inhibit growth-modulating peptide - human

Query Match 28.6%; Score 6; DB 3; Length 3;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 DB 1 G 1

RESULT 11

A60898
 bursin - chicken
 C;Species: Gallus gallus (chicken)
 C;Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Mar-2004
 C;Accession: A60898
 R;Audhya, T.; Kroon, D.; Heavner, G.; Viamontes, G.; Goldstein, G.
 Science 231, 997-999, 1986
 A;Title: Tripeptide structure of bursin, a selective B-cell-differentiating hormone of the chicken
 A;Reference number: A60898; PMID:86122316; PMID:3484838
 A;Accession: A60898
 A;Molecule type: protein
 A;Residues: 1-3 <AUD>
 A;Keywords: amidated carboxyl end; hormone
 F;3/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match 28.6%; Score 6; DB 3; Length 3;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 DB 3 G 3

RESULT 12

A23751
 spinal cord peptide SCP-4 - pig
 C;Species: Sus scrofa domestica (domestic pig)
 C;Date: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Mar-2004
 C;Accession: A23751
 R;Hsi, K.L.; Chen, R.L.; Chen, Z.G.; Zhang, H.L.; Lu, Y.A.; Guo, S.Y.; Wu, S.X.; Tsou, F.
 Arch. Biochem. Biophys. 240, 178-183, 1985
 A;Reference number: A23751; PMID:85250425; PMID:4015098
 A;Accession: A23751
 A;Status: preliminary
 A;Molecule type: protein
 A;Residues: 1-3 <HSI>

Query Match 28.6%; Score 6; DB 3; Length 3;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 DB 2 G 2

RESULT 13

ECXAA
 antho-RFamide neuropeptide - sea anemone (Anthopleura elegantissima)
 C;Species: Anthopleura elegantissima
 C;Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 09-Jul-2004
 C;Accession: A26666
 R;Grimmelikhuijzen, C.J.P.; Graff, D.
 Proc. Natl. Acad. Sci. U.S.A. 83, 9817-9821, 1986
 A;Title: Isolation of <Glu-Gly-Arg-Phe-NH2 (Antho-RFamide), a neuropeptide from sea anemone
 A;Reference number: A26666; PMID:87092339; PMID:2879288
 A;Accession: A26666
 A;Molecule type: protein
 A;Residues: 1-4 <GRI>
 A;Cross-references: UNIPROT:P10419
 C;Comment: The function of this peptide is not known but it could act as a transmitter and C;Superfamily: RFamide neuropeptide

C;Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
 F;1/Modified site: pyroglutamic acid (Gln) #status experimental
 F;4/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match 28.6%; Score 6; DB 3; Length 4;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 DB 2 G 2

RESULT 14

D41654
 hypothetical protein (sodC 5' region) - Haemophilus parainfluenzae (fragment)
 C;Species: Haemophilus parainfluenzae
 C;Date: 12-Jun-1992 #sequence_revision 12-Jun-1992 #text_change 24-Feb-1995
 C;Accession: D41654
 R;Kroll, J.S.; Langford, P.R.; Loynds, B.M.
 J. Bacteriol. 173, 7449-7457, 1991
 A;Title: Copper-zinc superoxide dismutase of Haemophilus influenzae and Haemophilus para
 A;Reference number: A41654; PMID:92041655; PMID:1938942

A;Accession: D41654
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-4 <KRO>

Query Match 28.6%; Score 6; DB 2; Length 4;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 F 1
|
Db 3 F 3

RESULT 15

S53508
starvation-induced ribonuclease - tomato
C;Species: Lycopersicon esculentum (tomato)
C;Date: 01-Aug-1995 #sequence_revision 01-Sep-1995 #text_change 07-May-1999
C;Accession: S53508
R;Koeck, M.; Loeffler, A.; Abel, S.; Giund, K.
Plant Mol. Biol. 27, 477-485, 1995
A;Title: cDNA structure and regulatory properties of a family of starvation-induced ribonucleases
A;Reference number: S53506; MUID:95201242; PMID:7894013
A;Accession: S53508
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-4 <KOE>

Query Match 28.6%; Score 6; DB 2; Length 4;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 F 1
|
Db 1 F 1

Search completed: March 23, 2005, 15:13:39
Job time : 38 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:51:07 ; Search time 171 Seconds
(without alignments)
11.978 Million cell updates/sec

Title: SEQ3

Perfect score: 21

Sequence: 1 fgln 4

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 26

Minimum DB seq length: 0

Maximum DB seq length: 4

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	12	57.1	4	1	OCPI_OCTMI
2	42.9	4	1	1	ILME_SEPOF
3	28.6	2	1	1	GWA_SEPOF
4	28.6	3	1	1	GRWM_HUMAN
5	28.6	4	1	1	ACH1_ACHFU
6	28.6	4	1	1	DCML_PSECH
7	28.6	4	1	1	EOSI_HUMAN
8	28.6	4	1	1	FAR3_HIRME
9	28.6	4	1	1	FAR4_HIRME
10	28.6	4	1	1	FKPA_ATEL
11	28.6	4	1	1	FLRP_HIRME
12	28.6	4	1	1	FLRN_ATEL
13	28.6	4	1	1	FRFP_MACNI
14	28.6	4	1	1	FYRI_ATEL
15	28.6	4	1	1	OCPI_OCTMI
16	28.6	4	2	1	Q16047
17	5	23.8	4	1	DCMS_PSECH
18	5	23.8	4	2	Q9GAT0
19	4	19.0	4	2	Q08433
20	2	9.5	3	1	LUXE_VIBFI
21	1	4.8	4	1	YLM1_YEAST
22	0	0.0	3	1	THYL_BOMOR
23	0	0.0	3	1	THYL_NOTVI
24	0	0.0	3	1	THYL_PIG
25	0	0.0	3	1	THYL_SHEEP
26	0	0.0	4	1	TUPT_HUMAN

ALIGNMENTS

RESULT 1
ID OCPI_OCTMI STANDARD; PRT; 4 AA.
AC P58648;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Cardioactive peptides Ocp-1/Ocp-2.
OS Octopus minor (Octopus).
OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
OC Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
OX NCBI_TaxID=89766;
RN [1]
RP SEQUENCE, SYNTHESIS, MASS SPECTROMETRY, AND CHARACTERIZATION.
RC TISSUE=Brain;
RX MEDLINE=20336815; PubMed=10876044; DOI=10.1016/S0196-9781(00)00201-1;
RA Iwakoshi E., Hiaada M., Minakata H.;
RT "Cardioactive peptides isolated from the brain of a Japanese octopus,
RT Octopus minor.";
RL Peptides 21:623-630(2000).
CC -!- FUNCTION: Cardioactive; has both positive chronotropic and
CC inotropic effects on the heart. Ocp-2 is a 1000 time less active
CC than Ocp-1.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- PTM: Ocp-2 has L-Phe instead of D-Phe.
CC -!- MASS SPECTROMETRY: MW=395.2; METHOD=WALDI; RANGE=1-4; NOTE=Ref.1.
KW D-amino acid; Direct protein sequencing; Hormone.
FT MOD RES 2 D-phenylalanine (in form Ocp-1).
SQ SEQUENCE 4 AA; 394 MW; 6AA879C810000000 CRC64;

Query Match 57.1%; Score 12; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 FG 2
Db 2 FG 3

RESULT 2
ID ILME_SEPOF STANDARD; PRT; 4 AA.
AC P83568;
DT 29-MAR-2004 (Rel. 43, Created)
DT 29-MAR-2004 (Rel. 43, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Pheromone peptide ILME.
OS Sepia officinalis (Common cuttlefish).
OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
OC Decapodiformes; Sepioidea; Sepiidae; Sepia.
OX NCBI_TaxID=6610;
RN [1]
RP SEQUENCE, SUBCELLULAR LOCATION, TISSUE SPECIFICITY, AND MASS
RP SPECTROMETRY.
RC TISSUE=Egg;
RX MEDLINE=20403899; PubMed=10944467; DOI=10.1006/bbrc.2000.3286;
RA Zatylny C., Gagnon J., Boucaud-Camou S., Henry J.;
RT "ILME: a waterborne pheromonal peptide released by the eggs of Sepia
RT officinalis".
RT Biochem. Biophys. Res. Commun. 275:217-222(2000).
RN [2]
RP SEQUENCE.
RC TISSUE=Egg;
RX MEDLINE=2197108; PubMed=12207899; DOI=10.1016/S0006-291X(02)02036-3;
RA Zatylny C., Marvin L., Gagnon J., Henry J.;
RT "Fertilization in Sepia officinalis: the first mollusk sperm-
RT attracting peptide".
RL Biochem. Biophys. Res. Commun. 296:1186-1193(2002).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- FUNCTION: Has myotropic activity targeting the genital tract.
CC -!- TISSUE SPECIFICITY: Follicle, fully grown oocyte and egg (EC2).
CC -!- MASS SPECTROMETRY: MW=505.4; METHOD=WALDI; RANGE=1-4; NOTE=Ref.1.
KW Direct protein sequencing; Pheromone.

SQ SEQUENCE 4 AA; 505 MW; 6B169720300000000 CRC64;

Query Match 42.9%; Score 9; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 LM 4
 |
 |
 2 LM 3

Db

RESULT 3
 GWA_SEPOF
 ID GWA_SEPOF STANDARD; PRT; 2 AA.
 AC P83570; 2004 (Rel. 43, Created)
 DT 29-MAR-2004 (Rel. 43, Last sequence update)
 DT 29-MAR-2004 (Rel. 43, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Neuropeptide GWA.
 OS Sepia officinalis (Common cuttlefish).
 OC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
 OC Decapodiformes; Sepioidae; Sepiidae; Sepia.
 OC NCBI_TaxID=6610;
 OX NCBI_TaxID=6610;
 RN [1]
 RP SEQUENCE, FUNCTION, MASS SPECTROMETRY, AND AMIDATION.
 RC TISSUE=Optic lobe;
 RX MEDLINE=98100358; PubMed=9437704; DOI=10.1016/S0196-9781(97)00241-6;
 RA Henry J., Favrel P., Boucaud-Camou E.;
 RT "Isolation and identification of a novel Ala-Pro-Gly-Trp-amide-related
 peptide inhibiting the motility of the mature oviduct in the
 cuttlefish, *Sepia officinalis*.";
 RT Peptides 18:1469-1474 (1997).
 RL [2]
 CC -1- FUNCTION: Regulatory neuropeptide with myotropic activity
 targeting the distal oviduct. Inhibits the motility of the oviduct
 by decreasing tone, frequency and amplitude of contractions.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- MASS SPECTROMETRY: MW=259.9; METHOD=MALDI; RANGE=1-2; NOTE=Ref.1.
 KW Amidation; Direct protein sequencing; Neuropeptide.
 FT MOD RES 2 2 Tryptophan amide.
 SQ SEQUENCE 2 AA; 261 MW; 737810000000000000 CRC64;

Query Match 28.6%; Score 6; DB 1; Length 2;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 |
 1 G 1

Db

RESULT 4
 GRWN_HUMAN
 ID GRWN_HUMAN STANDARD; PRT; 3 AA.
 AC P01157;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Growth-modulating peptide.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OC NCBI_TaxID=9606;
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE.
 RC MEDLINE=77162369; PubMed=858356;
 RX Schlesinger D.H., Pickart L., Thaler M.M.;
 RT "Growth-modulating serum tripeptide is glycyl-histidyl-lysine.";
 RL Experientia 33:324-325 (1977).
 CC -1- MISCELLANEOUS: This serum tripeptide has been found to stimulate
 growth of some cell types and to inhibit other types in vitro.
 CC GO: GO:0001558; P:regulation of cell growth; NAS.
 DR Direct protein sequencing.
 KW SEQUENCE 3 AA; 340 MW; 6331E8100000000000 CRC64;

Query Match 28.6%; Score 6; DB 1; Length 3;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 |
 1 G 1

Db

RESULT 5
 ACHI_ACHFU
 ID ACHI_ACHFU STANDARD; PRT; 4 AA.
 AC P35904;
 DT 01-JUN-1994 (Rel. 29, Created)
 DT 01-JUN-1994 (Rel. 29, Last sequence update)
 DT 25-OCT-2004 (Rel. 45, Last annotation update)
 DE Achatin-I.
 OS Achatina fulica (Giant African snail).
 OC Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
 OC Sigmurethra; Achatinoidea; Achatinidae; Achatina.
 OC NCBI_TaxID=6530;
 OX NCBI_TaxID=6530;
 RN [1]
 RP SEQUENCE, CHARACTERIZATION, AND SYNTHESIS.
 RC STRAIN=Perussac; TISSUE=Ganglion;
 RX MEDLINE=89273551; PubMed=2597281;
 RA Kamatani Y., Minakata H., Kenny P.T.M., Iwashita T., Watanabe K.,
 RA Funase K., Sun X.P., Yongsiri A., Kim K.H., Novales-Li P.,
 RA Novales E.T., Kanapi C.G., Takeuchi H., Nomoto K.;
 RT "Achatin-I, an endogenous neuroexcitatory tetrapeptide from Achatina
 fulica Ferussac containing a D-amino acid residue.";
 RT Biochem. Biophys. Res. Commun. 160:1015-1020 (1989).
 RL [2]
 CC CHARACTERIZATION.
 RP STRAIN=Perussac; TISSUE=Heart atrium;
 RX MEDLINE=91264856; PubMed=1675568;
 RA Fujimoto K., Kubota I., Yasuda-Kamatani Y., Minakata H., Nomoto K.,
 RA Yoshida M., Harada A., Muneoka Y., Kobayashi M.;
 RT "Purification of achatin-I from the atria of the African giant snail,
 Achatina fulica, and its possible function.";
 RT Biochem. Biophys. Res. Commun. 177:847-853 (1991).
 RN [3]
 CC CRYSTALLIZATION.
 RP MEDLINE=93014523; PubMed=1392265;
 RX Ishida T., In Y., Doi M., Inoue M., Yasuda-Kamatani Y., Minakata H.,
 RA Iwashita T., Nomoto K.;
 RT "Crystal structure and molecular conformation of achatin-I (H-Gly-D-
 Phe-Ala-Asp-OH), an endogenous neuropeptide containing a D-amino acid
 residue.";
 RT Int. J. Pept. Protein Res. 39:258-264 (1992).
 RL [4]
 CC -1- FUNCTION: Neuroexcitatory peptide; increases the impulse frequency
 and produces a spike broadening of the identified heart excitatory
 neuron (PON); also enhances the amplitude and frequency of the
 heart beat. Has also an effect on several other muscles.

DR PIR; A32480; A32480.
 KW D-amino acid; Direct 2 D-phenylalanine.
 FT MOD RES 2 2
 SQ SEQUENCE 4 AA; 408 MW; 6AADD9C810000000 CRC64;

Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 |
 1 G 1

Db

RESULT 6
 DCMPL_PSSCH
 ID DCMPL_PSSCH STANDARD; PRT; 4 AA.
 AC P19916;
 DT 01-FEB-1991 (Rel. 17, Created)

DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Carbon monoxide dehydrogenase large chain (EC 1.2.99.2) (CO
 DE dehydrogenase subunit L) (CO-DH L) (Fragment).
 GN Name=cutL;
 OS Pseudomonas carboxydohydrogena.
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
 OC Bradyrhizobiaceae.
 OX NCBI_TaxID=290;
 RN [1]
 RP MEDLINE=90055678; PubMed=2818128;
 RA Kraut M., Hugendieck I., Herwig S., Meyer O.;
 RT "Homology and distribution of CO dehydrogenase structural genes in
 RT carboxydohydrogenic bacteria.";
 RL Arch. Microbiol. 152:335-341(1989).
 CC -|- FUNCTION: Catalyzes the oxidation of carbon monoxide to carbon
 CC dioxide.
 CC -|- CATALYTIC ACTIVITY: CO + H(2)O + A = CO(2) + AH(2).
 CC -|- COFACTOR: Binds 1 copper(I) ion, 1 molybdenum(VI) ion and 1
 CC molybdopterin cytosine dinucleotide (MCD) per subunit.
 CC -|- SUBUNIT: Heterotrimer consisting of a large, a medium and a small
 CC subunit.
 DR PIR; PLO140; PLO140.
 KW Direct protein sequencing; Molybdenum; Oxidoreductase.
 FT NON_TER 4 4
 SQ SEQUENCE 4 AA; 441 MW; 77618876F0000000 CRC64;

 Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06; Gaps 0;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 QY 2 G 2
 Db |
 2 G 2

 RESULT 7
 EOSI_HUMAN STANDARD; PRT; 4 AA.
 ID EOSI_HUMAN
 AC P02731;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Eosinophilic leukocyte protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP MEDLINE=76078412; PubMed=1060093;
 RA Goettl E.J., Austen K.F.;
 RT "Purification and synthesis of eosinophilic leukocyte tetrapeptides of
 RT human lung tissue: identification as eosinophil chemotactic factor of
 RT anaphylaxis.";
 RL Proc. Natl. Acad. Sci. U.S.A. 72:4123-4127(1975).
 CC -|- MISCELLANEOUS: These peptides are released from mast cells in lung
 CC (and other tissues) during hypersensitivity reactions
 CC (anaphylaxis). Their activities, preferentially affecting
 CC eosinophils, include chemotaxis, chemotactic deactivation, release
 CC of enzymes, and stimulation of the hexose monophosphate shunt.
 DR GO; GO:0006935; P:chemotaxis; IDA.
 DR GO; GO:0006955; P:immune response; IDA.
 KW Direct protein sequencing.
 FT VARIANT 1 1 V -> A (in other peptide).
 FT /FTID=VAR_005201.
 SQ SEQUENCE 4 AA; 390 MW; 6B05B862A0000000 CRC64;

 Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06; Gaps 0;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 G 2
 Db |
 2 G 2

 RESULT 8
 FAR3_HIRME STANDARD; PRT; 4 AA.
 ID FAR3_HIRME
 AC P42562;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE FMRamide-like neuropeptide YLRF-amide.
 OS Hirudo medicinalis (Medicinal leech).
 OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
 OC Arhynchobdellida; Hirudiniformes; Hirudinidae; Hirudo.
 OX NCBI_TaxID=6421;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=921195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
 RA Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
 RT "Identification of Rfam neuropeptides in the medicinal leech.";
 RL Peptides 12:897-908(1991).
 CC -|- SUBCELLULAR LOCATION: Secreted.
 CC -|- SIMILARITY: Belongs to the FARP (FMRamide related peptide)
 CC family.
 KW Amidation; Direct protein sequencing; Neuropeptide.
 FT MOD_RES 4 4 Phenylalanine amide.
 SQ SEQUENCE 4 AA; 598 MW; 69D4073B30000000 CRC64;

 Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06; Gaps 0;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 QY 1 F 1
 Db |
 4 F 4

 RESULT 9
 FAR4_HIRME STANDARD; PRT; 4 AA.
 ID FAR4_HIRME
 AC P42563;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE FMRamide-like neuropeptide YMRP-amide.
 OS Hirudo medicinalis (Medicinal leech).
 OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
 OC Arhynchobdellida; Hirudiniformes; Hirudinidae; Hirudo.
 OX NCBI_TaxID=6421;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=921195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
 RA Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
 RT "Identification of Rfam neuropeptides in the medicinal leech.";
 RL Peptides 12:897-908(1991).
 CC -|- SUBCELLULAR LOCATION: Secreted.
 CC -|- SIMILARITY: Belongs to the FARP (FMRamide related peptide)
 CC family.
 KW Amidation; Direct protein sequencing; Neuropeptide.
 FT MOD_RES 4 4 Phenylalanine amide.
 SQ SEQUENCE 4 AA; 616 MW; 69D4068B30000000 CRC64;

 Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06; Gaps 0;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 10
FFKA ANTEL          STANDARD;          PRT;          4 AA.
AC P58705;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Antho-KAamide.
OS Anthopleura elegantissima (Sea anemone).
OC Eukaryota; Metazoa; Cnidaria; Anthozoa; Zoantharia; Actiniaria;
OC Nynanthese; Actiniidae; Anthopleura.
OX NCBI_TaxID=6110;
RN [1]
RP SEQUENCE.
RX MEDLINE=92028852; PubMed=1681803;
RA Nothacker H.-P., Rinehart K.L. Jr., Grimmelikhuijzen C.J.P.;
RT "Isolation of L-3-phenyllactyl-Phe-Lys-Ala-NH2 (Antho-KAamide); a
RT novel neuropeptide from sea anemones."
RL Biochem. Biophys. Res. Commun. 179:1205-1211(1991).
RN [2]
RP FUNCTION.
RX MEDLINE=93391436; PubMed=8397415;
RA McFarlane I.D., Hudman D., Nothacker H.-P., Grimmelikhuijzen C.J.P.;
RT "The expansion behaviour of sea anemones may be coordinated by two
RT inhibitory neuropeptides, Antho-KAamide and Antho-Riamide."
RL Proc. R. Soc. Lond., B, Biol. Sci. 253:183-188(1993).
CC -!- FUNCTION: Inhibits spontaneous contractions in several muscle
CC groups. May be involved in the expansion phase of feeding
CC behaviour in sea anemones.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Neuron specific.
DR PIR; JQ1273; JQ1273.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD_RES 1 1 3-phenyllactic acid.
FT MOD_RES 4 4 Alanine amide.
SQ SEQUENCE 4 AA; 512 MW; 5D3339C9A0000000 CRC64;

Query Match 28.6%; Score 6; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 F 1
DB 1 F 1

RESULT 11
FLRF_HIRME          STANDARD;          PRT;          4 AA.
AC P42561;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE FLRFamide.
OS Hirudo medicinalis (Medicinal leech), and
OS Helisoma trivolvis (Snail).
OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
OC Arhychochellida; Hirudiniformes; Hirudinidae; Hirudo.
OX NCBI_TaxID=6421, 27815;
RN [1]
RP SEQUENCE.
RX SPECIES-H.medicalinalis;
RX MEDLINE=92195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
RA Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
RT "Identification of Rfamide neuropeptides in the medicinal leech."
RL Peptides 12:897-908(1991).
RN [2]
RP SEQUENCE.
RX SPECIES-H.trivolvis; TISSUE=Kidney;
RX MEDLINE=94286417; PubMed=7912428; DOI=10.1016/0196-9781(94)90166-X;
RA Madrid K.P., Price D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
RT "FMRFamide-related peptides from the kidney of the snail, Helisoma
RT trivolvis."

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RL Peptides 15:31-36(1994).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
CC family.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD_RES 4 4 Phenylalanine amide.
SQ SEQUENCE 4 AA; 582 MW; 69D40729A0000000 CRC64;

Query Match 28.6%; Score 6; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 F 1
DB 1 F 1

RESULT 12
FLRN ANTEL          STANDARD;          PRT;          4 AA.
AC P58707;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Antho-RNamide.
OS Anthopleura elegantissima (Sea anemone).
OC Eukaryota; Metazoa; Cnidaria; Anthozoa; Zoantharia; Actiniaria;
OC Nynanthese; Actiniidae; Anthopleura.
OX NCBI_TaxID=6110;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RX MEDLINE=90319122; PubMed=1973541;
RA Grimmelikhuijzen C.J.P., Rinehart K.L. Jr., Jacob E., Graff D.,
RA Rinscheid R.K., Nothacker H.-P., Staley A.L.;
RT "Isolation of L-3-phenyllactyl-Leu-Arg-Asn-NH2 (Antho-RNamide), a sea
RT anemone neuropeptide containing an unusual amino-terminal blocking
RT group."
RL Proc. Natl. Acad. Sci. U.S.A. 87:5410-5414(1990).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Neuron specific.
CC -!- MASS SPECTROMETRY: MW=549.3; METHOD=PAB; RANGE=1-4; NOTE=Ref.1.
DR PIR; A35779; A35779.
KW Amidation; Direct protein sequencing; Neuropeptide.
FT MOD_RES 1 1 3-phenyllactic acid.
FT MOD_RES 4 4 Asparagine amide.
SQ SEQUENCE 4 AA; 549 MW; 64540729A0000000 CRC64;

Query Match 28.6%; Score 6; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 F 1
DB 1 F 1

RESULT 13
FMRF_MACNI          STANDARD;          PRT;          4 AA.
AC P01162;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE FMRFamide (Peak C) (Cardioexcitatory neuropeptide).
OS Macrocallista nimbosa (Sun-ray clam),
OS Nereis virens (Sandworm),
OS Hirudo medicinalis (Medicinal leech), and
OS Helisoma trivolvis (Snail).
OC Eukaryota; Metazoa; Mollusca; Bivalvia; Heteroconchia; Veneroida;
OC Veneroidae; Veneridae; Macrocallista.
OX NCBI_TaxID=6594, 6353, 6421, 27815;
RN [1]
RP SEQUENCE, AND SYNTHESIS.

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RC SPECIES=M.nimbosa; TISSUE=Cerebral pedal, and Visceral ganglion;
 RX MEDLINE=77215956; PubMed=877592;
 RA Price D.A., Greenberg M.J.;
 RT "Structure of a molluscan cardioexcitatory neuropeptide."
 RL Science 197;670-671(1977).
 RN [2]
 RP SEQUENCE, AND CHARACTERIZATION.
 RC SPECIES=M.nimbosa; TISSUE=Ganglion;
 RX MEDLINE=78012038; PubMed=909875;
 RA Price D.A., Greenberg M.J.;
 RT "Purification and characterization of a cardioexcitatory neuropeptide
 from the central ganglia of a bivalve mollusc."
 RL Prep. Biochem. 7:261-281(1977).
 RN [3]
 RP SEQUENCE.
 RC SPECIES=N.virens;
 RX MEDLINE=90259866; PubMed=2342992; DOI=10.1016/0196-9781(90)90113-J;
 RA Krajniak K.G., Price D.A.;
 RT "Authentic FMRFamide is present in the polychaete Nereis virens."
 RL Peptides 11:75-77(1990).
 RN [4]
 RP SEQUENCE.
 RC SPECIES=H.medicinalis;
 RX MEDLINE=92195954; PubMed=1686933; DOI=10.1016/0196-9781(91)90035-N;
 RA Evans B.D., Pohl J., Kartsonis M.A., Calabrese R.L.;
 RT "Identification of Rfamamide neuropeptides in the medicinal leech."
 RL Peptides 12:897-908(1991).
 RN [5]
 RP SEQUENCE.
 RC SPECIES=H.trivoltis; TISSUE=Kidney;
 RX MEDLINE=94286417; PubMed=7912428; DOI=10.1016/0196-9781(94)90166-X;
 RA Madrid K.P., Price D.A., Greenberg M.J., Khan H.R., Saleuddin A.S.M.;
 RT "FMRFamide-related peptides from the kidney of the snail, Helisoma
 trivoltis."
 RL Peptides 15:31-36(1994).
 CC -I- FUNCTION: Myoactive; cardioexcitatory substance. Pharmacological
 activities include augmentation, induction, and regularization of
 cardiac contraction.
 CC -I- SUBCELLULAR LOCATION: Secreted.
 CC -I- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
 family.
 DR PIR; A01426; ECKN.
 DR PIR; A60418; A60418.
 KW Amidation; Direct protein sequencing; Neuropeptide.
 FT MOD RES 4 4 Phenylalanine amide.
 SQ SEQUENCE 4 AA; 600 MW; 69D40699A0000000 CRC64;
 Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 F 1
 Db 1 F 1
 RESULT 14
 FYRI ANTEL STANDARD; PRT; 4 AA.
 AC P58706;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Antho-Riamide I (Contains: Antho-Riamide II).
 OS Anthopleura elegantissima (Sea anemone).
 CC Eukaryota; Metazoa; Chnidaria; Anthozoa; Zoantharia; Actiniaria;
 CC Nynanthaeae; Actiniidae; Anthopleura.
 CC NCBI_TaxID=6110;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=92270459; PubMed=1821096; DOI=10.1016/0196-9781(91)90190-Z;
 RA Nothacker H.-P., Rinehart K.L. Jr., McFarlane I.D.,
 RA Grimmelikhuijzen C.J.P.;

RT "Isolation of two novel neuropeptides from sea anemones: the unusual,
 biologically active L-3-phenylactyl-Tyr-Arg-Ile-NH2 and its des-
 phenylactyl fragment Tyr-Arg-Ile-NH2."
 RL Peptides 12:1165-1173(1991).
 RN [2]
 RP FUNCTION.
 RX MEDLINE=93391436; PubMed=8397415;
 RA McFarlane I.D., Hudman D., Nothacker H.-P., Grimmelikhuijzen C.J.P.;
 RT "The expansion behaviour of sea anemones may be coordinated by two
 inhibitory neuropeptides, Antho-Riamide and Antho-Riamide II."
 RL Proc. R. Soc. Lond., B, Biol. Sci. 253:183-188(1993).
 CC -I- FUNCTION: Inhibits spontaneous contractions in several muscle
 groups. May be involved in the expansion phase of feeding
 behaviour in sea anemones.
 CC -I- SUBCELLULAR LOCATION: Secreted.
 CC -I- TISSUE SPECIFICITY: Neuron specific.
 KW Amidation; Direct protein sequencing; Neuropeptide.
 FT CHAIN 1 4 Antho-Riamide I.
 FT CHAIN 2 4 Antho-Riamide II.
 FT MOD RES 1 1 3-phenylactic acid.
 FT MOD_RES 4 4 Isoleucine amide.
 SQ SEQUENCE 4 AA; 598 MW; 60441B59A0000000 CRC64;
 Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 F 1
 Db 1 F 1
 RESULT 15
 OCP3 OCTMI STANDARD; PRT; 4 AA.
 AC P58649;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Cardioactive peptides Ocp-3/Ocp-4.
 OS Octopus minor (Octopus).
 CC Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
 CC Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
 CC NCBI_TaxID=89766;
 RN [1]
 RP SEQUENCE, SYNTHESIS, MASS SPECTROMETRY, AND CHARACTERIZATION.
 RC TISSUE=Brain;
 RX MEDLINE=20336815; PubMed=10876044; DOI=10.1016/S0196-9781(00)00201-1;
 RA Iwakoshi E., Hisada M., Minakata H.;
 RT "Cardioactive peptides isolated from the brain of a Japanese octopus,
 Octopus minor."
 RL Peptides 21:623-630(2000).
 CC -I- FUNCTION: Cardioactive; has both positive chronotropic and
 inotropic effects on the heart. Ocp-4 is a 1000 time less active
 than Ocp-3.
 CC -I- SUBCELLULAR LOCATION: Secreted.
 CC -I- PTM: Ocp-4 has D-Ser instead of L-Ser.
 CC -I- MASS SPECTROMETRY: MW=395.2; METHOD=MALDI; RANGE=1-4; NOTE=Ref.1.
 KW D-amino acid; Direct protein sequencing; Hormone.
 FT MOD RES 2 2 D-serine (in form Ocp-4).
 SQ SEQUENCE 4 AA; 463 MW; 6AB365B810000000 CRC64;
 Query Match 28.6%; Score 6; DB 1; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 1; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 G 2
 Db 1 G 1
 Search completed: March 23, 2005, 15:10:03
 Job time : 172 secs

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OM protein - protein search, using sw model

Run on: March 23, 2005, 14:52:02 ; Search time 164 Seconds
(without alignments)
9.433 Million cell updates/sec

Title: SEQ3

Perfect score: 21

Sequence: 1 fglm 4

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 19815

Minimum DB seq length: 0

Maximum DB seq length: 4

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A_Geneseq_16Dec04.*

1: Geneseq1980a.*

2: Geneseq1990a.*

3: Geneseq2000a.*

4: Geneseq2001a.*

5: Geneseq2002a.*

6: Geneseq2003a.*

7: Geneseq2003bs.*

8: Geneseq2004a.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	4	2 AAW41683	Aaw41683 Peptide u
2	21	100.0	4	2 AAY31075	Aay31075 Non-cross
3	21	100.0	4	3 AAB23026	Aab23026 Human/rat
4	21	100.0	4	3 AAY67577	Aay67577 P antagonist
5	21	100.0	4	4 AAB91447	Aab91447 Tachykini
6	21	100.0	4	5 ABB10091	Abb10091 Substance
7	21	100.0	4	5 AAU77846	Aau77846 Tachykini
8	21	100.0	4	7 ADE94198	Ad94198 High acti
9	21	100.0	4	8 ADR43772	Adr43772 Human mag
10	18	85.7	4	1 AAP61654	Aap61654 Sequence
11	18	85.7	4	1 AAP71301	Aap71301 Peptide c
12	18	85.7	4	2 AAW41686	Aaw41686 Tetrapept
13	18	85.7	4	5 ABB10092	Abb10092 Substance
14	16	76.2	4	1 AAP61707	Aap61707 Sequence
15	16	76.2	4	1 AAP71312	Aap71312 Peptide c
16	16	76.2	4	2 AAY23485	Aay23485 V beta 6
17	16	76.2	4	3 AAB12293	Aab12293 Prodrug o
18	16	76.2	4	4 AAG62847	Aag62847 Typical t
19	16	76.2	4	5 ABB88046	Abb88046 Enzyme cl
20	16	76.2	4	8 ADL78809	Adl78809 Exemplary
21	15	71.4	3	3 AAY67578	Aay67578 P antagonist
22	15	71.4	3	4 AAB91448	Aab91448 Tachykini
23	15	71.4	4	1 AAP60334	Aap60334 Peptide w
24	15	71.4	4	2 AAW77469	Aaw77469 Tetrapept
25	15	71.4	4	2 AAW41684	Aaw41684 Tetrapept

26	15	71.4	4	2 AAW41685	Aaw41685 Tetrapept
27	15	71.4	4	4 AAB91795	Aab91795 Amyloid b
28	15	71.4	4	4 AAB91822	Aab91822 Amyloid b
29	14	66.7	4	1 AAP61659	Aap61659 Sequence
30	14	66.7	4	1 AAP71306	Aap71306 Peptide c
31	14	66.7	4	2 AAR34486	Aar34486 FGIA. 8/1
32	14	66.7	4	2 AAR46020	Aar46020 Serine pr
33	14	66.7	4	2 AAR93149	Aar93149 Mycobacte
34	14	66.7	4	3 AAB12292	Aab12292 Prodrug o
35	14	66.7	4	4 AAB91714	Aab91714 Opioid pe
36	14	66.7	4	5 ABB88045	Abb88045 Enzyme cl
37	14	66.7	4	5 ABG32223	Abg32223 Sheep col
38	14	66.7	4	8 ADQ91509	Adq91509 HIV trunc
39	14	66.7	4	8 ADS77433	Ads77433 Ovine col
40	13	61.9	3	5 ABG77484	Abg77484 Targettin
41	13	61.9	4	1 AAP61658	Aap61658 Sequence
42	13	61.9	4	1 AAP71287	Aap71287 Opiate bi
43	13	61.9	4	1 AAP82691	Aap82691 Renin inh
44	13	61.9	4	2 AAR15768	Aar15768 Farnesyl-
45	13	61.9	4	2 AAR47299	Aar47299 Peptide a

ALIGNMENTS

RESULT 1

AAW41683

ID AAW41683 standard; peptide; 4 AA.

XX AC AAW41683;

XX DT 09-JUN-1998 (first entry)

XX DE Peptide used in ophthalmic drug to treat corneal disorders.

XX KW Ophthalmic drug; corneal disorder; ulcer; epithelial peeling; dry eye;

XX KW keratitis; insulin like growth factor-I; IGF-I; eye drop.

XX OS Synthetic.

XX PH Key Location/Qualifiers

FT Modified-site 4 /note= "C-terminal amide"

XX PN WO9749419-A1.

XX PD 31-DEC-1997.

XX PF 11-JUN-1997; 97WO-JP002015.

XX PR 26-JUN-1996; 96JP-00165612.

XX PA (SANT) SANTEN PHARM CO LTD.

XX PI Nishida T, Nakamura M, Nakata K;

XX DR WPI; 1998-076907/07.

XX PT Ophthalmic drug composition containing tetra-peptide - is useful as

XX PT corneal disorder remedy for corneal ulcer, corneal epithelial peeling,

XX PS Claim 1; Page 15; 19pp; Japanese.

XX CC The present sequence represents a tetrapeptide which is the active

XX CC ingredient in an ophthalmic drug composition. It is used, together with

XX CC insulin like growth factor-I (IGF-I), to treat corneal disorders such as

XX CC corneal ulcer, corneal epithelial peeling, dry eye and keratitis. The

XX CC dosage is 0.1-5000 (preferably 1-1000) mg/day of the tetrapeptide and

XX CC 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The preferable form of

XX CC the composition is eye drops

XX SQ Sequence 4 AA;

Query Match 100.0%; Score 21; DB 2; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGLM 4
 Db 1 FGLM 4

RESULT 2
 AAY31075
 ID AAY31075 standard; peptide; 4 AA.
 AC AAY31075;
 XX 21-OCT-1999 (first entry)
 DT
 DE Non-crosslinked protein particle peptide 124.
 XX
 XX Non-crosslinked protein particle; diagnostic; therapy; monodisperse;
 KW albumin; haemoglobin; nanometer; micrometer; clearance.
 XX Synthetic.
 OS
 XX
 FH Key Location/Qualifiers
 FT Modified-site 4 /note= "C-terminal amide"
 FT
 XX US5945033-A.
 FN
 XX 31-AUG-1999.
 PD
 XX 12-NOV-1996; 96US-00747137.
 PF
 XX 15-JAN-1991; 91US-00641720.
 PR 13-OCT-1992; 92US-00959560.
 PR 01-JUN-1993; 93US-00069831.
 PR 14-MAR-1994; 94US-00212546.
 XX
 XX (HEMO-) HEMOSPHERE INC.
 PA
 XX Yen RCK;
 PI
 XX WPI; 1999-508153/42.
 DR
 XX Non-crosslinked protein particles for therapeutic and diagnostic use.
 FT
 PS Example 22; Col 103-104; 65pp; English.
 XX
 CC This invention describes a novel aqueous suspension of monodisperse
 CC particles on non-crosslinked, non-denatured albumin (50-5000 nm) which is
 CC stable against dissolving upon dilution with an alcohol-free aqueous
 CC medium. The method involves (a) forming an aqueous solution containing
 CC albumin and hemoglobin and (b) treating the aqueous solution with an
 CC alcohol to cause the solution to become turbid. The particles are useful
 CC as agents for in vivo administration, either of their own administration
 CC or as a vehicle for other therapeutic or diagnostic agents. The method
 CC permits the formation of albumin and hemoglobin particles in the
 CC nanometer and micrometer size range, in a form closer to their natural
 CC form than the forms of the prior art. The particles therefore constitute
 CC a more closely controlled agent for in vivo administration, with greater
 CC ease of clearance from the body after their period of usefulness.
 CC AAY30952-Y31135 represent peptides used in the method of the invention
 XX
 XX Sequence 4 AA;

Query Match 100.0%; Score 21; DB 2; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGLM 4
 Db 1 FGLM 4

RESULT 4
 AAY67577
 ID AAY67577 standard; peptide; 4 AA.
 XX

Db 1 FGLM 4

RESULT 3
 AAB23026
 ID AAB23026 standard; peptide; 4 AA.
 XX
 AC AAB23026;
 XX
 DT 16-JAN-2001 (first entry)
 XX
 DE Human/rat tachykinin Substance P C-terminal tetrapeptide.
 XX
 KW Substance P; tachykinin; human; rat; magnesium binding defect;
 KW sodium sensitive essential hypertension; insulin resistance;
 KW type 2 diabetes; antibody; immunoassay; quantification.
 XX
 OS Homo sapiens.
 OS Rattus sp.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 4 /note= "C-terminal amide"
 FT
 XX WO200054053-A1.
 FN
 XX 14-SEP-2000.
 PD
 XX 09-MAR-2000; 2000WO-US003707.
 PF
 XX 10-MAR-1999; 99US-00265690.
 PR
 XX (WELL/) WELLS I C.
 PA
 XX Wells IC;
 PI
 XX WPI; 2000-587457/55.
 DR
 XX
 PT Detecting magnesium binding defects associated with abnormal
 PT physiological states such as sodium-sensitive essential hypertension and
 PT type 2 insulin-resistant diabetes mellitus, comprises measuring a
 PT specific pentapeptide in blood.
 XX
 PS Disclosure; Page 5; 21pp; English.
 XX
 CC The invention relates to a method for detecting magnesium binding
 CC defects. The method comprises quantitating a tachykinin C-terminal
 CC pentapeptide (e.g., AAB23025) and its degradation products (e.g.,
 CC AAB23026) in blood using an antibody specific for the generalised
 CC mammalian tachykinin C-terminal pentapeptide Phe-(Phe/Val)-Gly-Leu-Met-
 CC NH2 (AAB23028). The method is useful for detecting cellular magnesium
 CC binding defects which are associated with abnormal physiological states
 CC such as sodium-sensitive essential hypertension and type 2 diabetes
 CC mellitus. The present sequence represents the C-terminal 4 amino acids of
 CC the tachykinin Substance P (AAB23027) from human and rat. This is a
 CC degradation product of the Substance P C-terminal pentapeptide (AAB23025)
 CC and may also be assayed according to the method of the invention
 XX
 XX Sequence 4 AA;

Query Match 100.0%; Score 21; DB 3; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGLM 4
 Db 1 FGLM 4

RESULT 4
 AAY67577
 ID AAY67577 standard; peptide; 4 AA.
 XX

AC AAY67577;
 XX 19-MAY-2000 (first entry)
 XX P antagonist peptide #5.
 DE
 XX Pharmaceutical; veterinary; gonadotropin-releasing hormone; GnRH;
 KW pore-forming agent; lecithin; stearin; P antagonist.
 XX Unidentified.
 OS
 XX Key Location/Qualifiers
 FH Modified-site 4
 FT /note= "C-terminal amide"
 FT
 XX WO200004897-A1.
 XX 03-FEB-2000.
 PD
 XX 20-JUL-1999; 99WO-AU000585.
 PF
 XX 20-JUL-1998; 98AU-00004730.
 PR
 XX 20-JUL-1998; 98AU-00004731.
 PR
 XX 13-MAY-1999; 99AU-00000324.
 XX (PEPT-) PEPTTECH LTD.
 PA
 XX Trigg TE, Walsh JD, Rathjen DA;
 PI
 XX WPI; 2000-182528/16.
 DR
 XX Bioimplant formulation for sustained delivery of an active agent over 7
 PT days to 2 years, comprises active agent, pore-forming agent and stearin.
 PT
 XX Claim 20; Page 21; 37pp; English.
 PS
 XX The invention provides a pharmaceutical and/or veterinary formulation
 CC that comprises 2 -30% of active agents which include a gonadotropin-
 CC releasing hormone (GnRH) agonist, 0.5 - 20% of a pore-forming agent which
 CC is not lecithin, and the remainder stearin. The formulation is useful as
 CC a sustained release implant which can deliver the active agent for a
 CC period of 7 days to 2 years. Sequences AAY67573-578 represent P
 CC antagonist peptides used in the composition
 XX
 SQ Sequence 4 AA;
 Query Match 100.0%; Score 21; DB 3; Length 4;
 Best Local Similarity 100.0%; Pred. NO. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 DB 1 FGLM 4
 RESULT 5
 AAB91447
 ID AAB91447 standard; peptide; 4 AA.
 XX
 AC AAB91447;
 XX
 XX 22-JUN-2001 (first entry)
 DT
 XX Tachykinins peptide SEQ ID NO:623.
 DE
 XX Protection; endogenous therapeutic peptide; peptidase; conjugation;
 KW blood component; modification; succinimidy1; maleimido group; amino;
 KW hydroxyl; thiol; hormone; growth factor; neurotransmitter.
 XX
 XX Homo sapiens.
 OS
 XX Synthetic.
 XX
 PN WO200069900-A2.

XX 23-NOV-2000.
 PD
 XX 17-MAY-2000; 2000WO-US013576.
 PF
 XX 17-MAY-1999; 99US-0134406P.
 PR
 XX 10-SEP-1999; 99US-0153406P.
 PR
 XX 15-OCT-1999; 99US-0159783P.
 XX (CONJ-) CONJUCHEM INC.
 PA
 XX Bridon DP, Ezrin AM, Milner PG, Holmes DL, Thibaudau K;
 PI
 XX WPI; 2001-112059/12.
 DR
 XX Modifying and attaching therapeutic peptides to albumin prevents
 PT peptidase degradation, useful for increasing length of in vivo activity.
 PT
 XX Disclosure; Page 402; 733pp; English.
 PS
 XX The present invention describes a modified therapeutic peptide (I)
 CC comprising a therapeutically active amino acid region (II) and a
 CC reactive group (III) (e.g. succinimidy1 and maleimido groups) attached to
 CC a less therapeutically active amino acid region (IV), which covalently
 CC bonds with amino/hydroxyl/thiol groups on blood components to form a
 CC peptidase stabilised therapeutic peptide composed of 3-50 amino acids.
 CC (I) are useful for modifying therapeutic peptides e.g. hormones, growth
 CC factors and neurotransmitters, to protect them from peptidase activity in
 CC vivo for the treatment of various disorders. Endogenous therapeutic
 CC peptides are not suitable as drug candidates as they require frequent
 CC administration due to rapid degradation by peptidases in the body.
 CC Modifying and attaching therapeutic peptides to albumin prevents or
 CC reduces the action of peptidases to increase length of activity (half
 CC life) and specificity as bonding to large molecules decreases
 CC intracellular uptake and interference with physiological processes.
 CC AAB90829 to AAB92441 represent peptides which can be used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 4 AA;
 Query Match 100.0%; Score 21; DB 4; Length 4;
 Best Local Similarity 100.0%; Pred. NO. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 DB 1 FGLM 4
 RESULT 6
 ABB10091
 ID ABB10091 standard; peptide; 4 AA.
 XX
 AC ABB10091;
 XX
 XX 26-JUL-2002 (first entry)
 DT
 XX Substance P analog used in wound healing treatment#14.
 DE
 XX Wound healing; insulin-like growth factor-I; tear; abrasion; skin ulcer;
 KW surgical incision; burn.
 KW
 XX Unidentified.
 OS
 XX WO200213853-A1.
 PN
 XX 21-FEB-2002.
 PD
 XX 10-AUG-2001; 2001WO-JP006933.
 PF
 XX 10-AUG-2000; 2000JP-00242489.
 XX
 PR 28-NOV-2000; 2000JP-00361388.
 PR
 XX

PA (SANT) SANTEN PHARM CO LTD.
 PA (NISH/) NISHIDA T.
 PI Nishida T, Nakata K, Nakamura M;
 XX WPI; 2002-269153/31.
 DR
 XX Skin wound healing promoters or skin epidermal extension promoters
 PT containing substance P analogs and insulin-like growth factor-I for
 PT treating wounds like tear, abrasion, surgical incision, skin ulcers or
 PT burns.
 XX
 PS Claim 3; Page 11; 20pp; Japanese.
 XX
 CC The invention relates to skin wound healing promoters, containing
 CC substance P analogs or their pharmaceutically-acceptable salts, and
 CC insulin-like growth factor-I as the active ingredient. The promoters are
 CC for treating wounds like tear, abrasions, surgical incisions, or skin
 CC ulcers and burns. The current sequence represents a substance P analog
 CC for use in wound healing treatment
 XX
 XX Sequence 4 AA;
 SQ
 Query Match 100.0%; Score 21; DB 5; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 Db | | | |
 1 FGLM 4
 RESULT 7
 AAU77846
 ID AAU77846 standard; peptide; 4 AA.
 AC
 AC AAU77846;
 XX
 XX 05-JUN-2002 (first entry)
 DT
 XX Tachykinin N -terminal tetrapeptide.
 DE
 XX Tachykinin; substance P; hypertension; hypotensive; antidiabetic;
 KW gynaecological; salt-insensitive hypertension; magnesium binding;
 KW insulin resistance; type 2 diabetes mellitus; pre-eclampsia; eclampsia.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 4.4
 FT /note= "C terminal-amide"
 XX
 XX WO200211714-A2.
 PN
 XX 14-FEB-2002.
 PD
 XX 09-AUG-2001; 2001WO-US024909.
 PF
 XX 09-AUG-2000; 2000US-00635266.
 PR
 XX (MAGN-) MAGNESIUM DIAGNOSTICS INC.
 PA
 XX Wells IC;
 XX
 XX WPI; 2002-280663/32.
 DR
 XX New mono-peptides derived from butadienes, ethylenes and propanes are
 PT magnesium binding defect antagonists, useful in the treatment of e.g.
 PT hypertension, insulin resistance of type 2 diabetes mellitus and
 PT eclampsia.
 XX
 XX Disclosure; Page 2; 38pp; English.
 PS
 XX

CC This invention relates to novel therapeutic compounds and methods used
 CC for treating mammals with disorders such as salt-insensitive
 CC hypertension. The mono-peptide compounds of the invention are derived from
 CC butadienes, ethylenes and propanes. The compounds of the invention are
 CC used to correct a defect in magnesium binding within the plasma membranes
 CC of somatic cells which results in a decrease in the intracellular
 CC concentration of magnesium ions. These compounds may be used in the
 CC treatment of a mammal affected with magnesium binding defect, salt-
 CC sensitive (particularly hypertension), insulin resistance of type 2
 CC diabetes mellitus and pre-eclampsia/eclampsia. The compounds of the
 CC invention have an advantage over prior art compounds in that these
 CC compounds are biologically stable. The present sequence represents the a
 CC tetrapeptide from the C terminal sequence of tachykinin known as
 CC substance P, this peptide is sufficient to correct the magnesium binding
 CC defect responsible for causing hypertension
 XX
 XX Sequence 4 AA;
 SQ
 Query Match 100.0%; Score 21; DB 5; Length 4;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 Db | | | |
 1 FGLM 4
 RESULT 8
 ADE94198
 ID ADE94198 standard; peptide; 4 AA.
 XX
 AC ADE94198;
 XX
 XX 12-FEB-2004 (first entry)
 DT
 XX High activity minimal IGF-1-derived peptide fragment #10.
 DE
 XX ophthalmological; dermatological; vulnery; insulin growth factor 1;
 KW IGF-1; ophthalmology; dermatology; keratic injury; wound healing; skin;
 KW corneal ulcer; exfoliation of corneal epithelium; keratitis; dry eye;
 KW scratch; surgical cutting; skin ulcer; burns.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Misc-difference 4 /note= "amidated C-terminus"
 FT
 XX WO2003048192-A1.
 PN
 XX 12-JUN-2003.
 PD
 XX 03-DEC-2002; 2002WO-JP012632.
 PF
 XX 03-DEC-2001; 2001JP-00368103.
 PR
 XX (SANT) SANTEN PHARM CO LTD.
 PA (NISH/) NISHIDA T.
 XX
 XX Nishida T, Inui M, Nakamura M;
 PI
 XX WPI; 2003-505280/47.
 DR
 XX Novel peptides based on minimum activity expression units of insulin-like
 PT growth factor-1, applicable in remedies in ophthalmology and dermatology
 PT for treating keratic injury and promoting wound healing in skin.
 XX
 XX Claim 3; Page 18; 25pp; Japanese.
 CC
 CC The invention relates to the determination of the smallest peptide
 CC fragment of insulin growth factor 1 (IGF-1) with the highest activity for
 CC use in ophthalmology and dermatology. The peptides are applicable in
 CC remedies in ophthalmology and dermatology for treating keratic injury and

CC promoting wound healing in the skin. The keratic injury is particularly
 CC corneal ulcer, exfoliation of corneal epithelium, keratitis or dry eye.
 CC The skin wound can be scratches, surgical cutting, skin ulcer, or burns.
 CC This sequence represents one of the peptides of the invention with IGF-1
 CC activity.

XX Sequence 4 AA;
 SQ

Query Match 100.0%; Score 21; DB 7; Length 4;
 Best Local Similarity 100.0%; Pred. NO. 1.8e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGLM 4
 ||||
 Db 1 FGLM 4

RESULT 9
 ADR43772
 ID ADR43772 standard; peptide; 4 AA.
 AC ADR43772;
 DT 18-NOV-2004 (first entry)
 XX Human magnesium binding defect (MgBD) peptide mimetic #2.
 DE
 XX Magnesium binding defect; MgBD; MgBD binding defect peptide mimetic;
 KW physiological disorder; preeclampsia; pregnancy;
 KW salt-sensitive essential hypertension; type 2 diabetes mellitus; human.
 XX
 OS Homo sapiens.
 XX
 PH Key Location/Qualifiers
 FT Modified-site 4
 FT /label= OTHER
 FT /note= "OTHER= C-terminal amide"
 XX
 PN US2004171093-A1.
 XX
 PD 02-SEP-2004.
 XX
 PF 22-MAR-2004; 2004US-00805881.
 XX
 PR 10-MAR-1999; 99US-00265690.
 PR 09-AUG-2000; 2000US-00635266.
 PR 24-JAN-2002; 2002US-00053669.
 PR 29-AUG-2002; 2002US-00230133.
 PR 28-OCT-2003; 2003US-00695536.
 XX
 PA (WELL/) WELLS I C.
 PI Wells IC;
 XX
 DR WPI; 2004-625105/60.
 XX
 PT Assessing predisposition to physiological disorder associated with
 PT magnesium binding defect in individual by measuring level of amidated
 PT peptides associated with magnesium binding defect in sample and comparing
 PT peptide level to standard.
 XX
 PS Claim 1; SEQ ID NO 2; 21pp; English.
 XX
 CC The invention relates to a method of assessing a predisposition to a
 CC physiological disorder associated with a magnesium binding defect in an
 CC individual, involving measuring the level of amidated peptides associated
 CC with the magnesium binding defect in a sample of body fluid of the
 CC individual and comparing the level of peptide to a standard, where a
 CC significantly lower level of the peptide is indicative of a
 CC predisposition of the individual to the physiological disorder. The
 CC invention also relates to a method of monitoring progress in treatment of
 CC a physiological disorder associated with a magnesium binding defect in an
 CC individual, involving comparing the level of peptide to the level of

CC peptide after treatment, where a significant increase in the level of the
 CC peptide is indicative of the progress of treatment of the individual; a
 CC monoclonal antibody that specifically binds to a peptide or its peptide
 CC mimetic, a prognosis reagent for determining the presence of a magnesium
 CC binding defect, generating a deficit of plasma membrane tightly bound
 CC magnesium ion in mammalian somatic cells involving obtaining a sample of
 CC body fluid comprising somatic cells, collecting the somatic cells from
 CC the body fluid by centrifugation, resuspending the somatic cells in a
 CC cell stabilising buffer, removing a sample of the suspended somatic
 CC cells, measuring the level of tightly bound magnesium ion in the sample
 CC of the somatic cells and repeating the removing and measuring steps at
 CC subsequent times until the level of tightly bound magnesium is
 CC significantly reduced and the somatic cells remain intact, a method of
 CC identifying substances which promote binding of tightly bound magnesium
 CC ion to a plasma membrane of mammalian somatic cells involving suspending
 CC mammalian somatic cells having a deficit of plasma membrane tightly bound
 CC magnesium in a physiological medium including magnesium ion, adding a
 CC substance to be tested to the suspension and measuring the level of
 CC tightly bound magnesium ion in the plasma membrane of the somatic cells
 CC where a significant increase in the level of plasma membrane tightly
 CC bound magnesium after addition of the substance to be tested is
 CC indicative of promotion of binding by the substance, and a method for
 CC ameliorating or correcting a magnesium binding defect in an individual
 CC involving administering to the individual a substance which promotes
 CC binding of tightly bound magnesium ion to the plasma membrane of
 CC mammalian somatic cells. The methods are useful for assessing a
 CC predisposition to a physiological disorder associated with a magnesium
 CC binding defect in an individual, where the disorder is a predisposition
 CC to preeclampsia during pregnancy, salt-sensitive essential hypertension
 CC or type 2 diabetes mellitus associated with the magnesium binding defect.
 CC The method is also useful for ameliorating or correcting a magnesium
 CC binding defect (MgBD) in an individual. This sequence represents a human
 CC MgBD mimetic peptide of the invention.

XX
 SQ Sequence 4 AA;

Query Match 100.0%; Score 21; DB 8; Length 4;

Best Local Similarity 100.0%; Pred. NO. 1.8e+06;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGLM 4

||||

Db 1 FGLM 4

RESULT 10

AAP61654

ID AAP61654 standard; peptide; 4 AA.

XX

AC AAP61654;

XX

DT 25-MAR-2003 (revised)

DT 03-OCT-2002 (revised)

DT 21-AUG-1991 (first entry)

XX

DE Sequence of peptide which inhibits cyclic-nucleotide independent protein

kinase activity and mammalian cell growth.

XX Cell growth inhibitor; tumour cell growth inhibitor.

OS Synthetic.

XX

PH Key Location/Qualifiers

FT Misc-difference 1

FT /label= Carbobenzoxo-Phe

FT Misc-difference 4

FT /label= Leu-CH2Cl

XX

PN US4582821-A.

XX

PD 15-APR-1986.

XX

PP 16-NOV-1983; 83US-00552255.

XX PR 16-NOV-1983; 83US-00552255.
 XX XX (DUPO) DU PONT DE NEMOURS & CO E I.
 XX PA Kettner CA, Racker E;
 XX FI WPI; 1986-118872/18.
 XX DR Inhibition of tumour cell growth - using peptide and aminoacid
 XX PT halo:methyl ketone(s).
 XX PS Claim 1; Col 4; 9pp; English.
 XX CC The cpds. of the invention inhibit protein phosphorylation. The inventors
 CC claim a process for inhibiting the growth of tumour cells in a medium
 CC which comprises contacting the cells with a cpd. of formula (AAFe1654-
 CC P61661) or a physiologically acceptable salt. (Updated on 03-OCT-2002 to
 CC add missing OS field.) (Updated on 25-MAR-2003 to correct PA field.)
 XX CC
 XX SQ Sequence 4 AA;
 SQ Query Match 85.7%; Score 18; DB 1; Length 4;
 Best Local Similarity 75.0%; Pred. No. 1.8e+06;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 DB 1 FGLL 4
 RESULT 11
 AAP71301
 ID AAP71301 standard; peptide; 4 AA.
 XX AC AAP71301;
 XX DT 25-MAR-2003 (revised)
 XX DT 15-MAY-1991 (first entry)
 XX XX Peptide component of cpd. for treating picornavirus infections.
 DE Picornaviridae; poliovirus; rhinovirus; antiviral agent.
 KW Synthetic.
 XX OS
 XX PN US4636492-A.
 XX PD 13-JAN-1987.
 XX PF 29-AUG-1984; 84US-00645426.
 XX PR 29-AUG-1984; 84US-00645426.
 XX PA (DUPO) DU PONT DE NEMOURS & CO E I.
 XX PI Kettner CA, Korant BD;
 XX DR WPI; 1987-036897/05.
 XX PT Treating picorna-virus infection with peptide halo:methyl ketone cpds. -
 XX PT esp. for treating polio virus and rhino virus infections.
 XX PS Disclosure; Page 3; 10pp; English.
 XX CC This peptide is useful as part of a peptide/halo-methyl ketone cpd., for
 CC treating picornavirus, egpolio- or rhinovirus infections. It inhibits the
 CC processing of picornavirus capsid proteins by virus encoded proteases.
 CC See AAP71302-13. See also US452552. (Updated on 25-MAR-2003 to correct
 CC PA field.)
 XX SQ Sequence 4 AA;
 SQ Query Match 85.7%; Score 18; DB 1; Length 4;
 Best Local Similarity 75.0%; Pred. No. 1.8e+06;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 DB 1 FGLL 4
 RESULT 12
 AAW41686
 ID AAW41686 standard; peptide; 4 AA.
 XX AC AAW41686;
 XX DT 09-JUN-1998 (first entry)
 XX DE Tetrapeptide #3.
 XX KW Ophthalmic drug; corneal disorder; ulcer; epithelial peeling; dry eye;
 XX KW keratitis; insulin like growth factor-I; IGF-I; eye drop.
 XX OS Synthetic.
 XX FH Key Location/Qualifiers
 FT Modified-site 4
 FT /note= "C-terminal amide"
 XX PN WO9749419-A1.
 XX PD 31-DEC-1997.
 XX PF 11-JUN-1997; 97WO-JP002015.
 XX PR 26-JUN-1996; 96JP-00165612.
 XX PA (SANT) SANTEN PHARM CO LTD.
 XX PI Nishida T, Nakamura M, Nakata K;
 XX DR WPI; 1998-076907/07.
 XX PT Ophthalmic drug composition containing tetra:peptide - is useful as
 XX PT corneal disorder remedy for corneal ulcer, corneal epithelial peeling,
 XX PT dry eye, keratitis.
 XX PS Disclosure; Page 11; 19pp; Japanese.
 XX CC This sequence is shown in the specification. The invention relates to an
 CC ophthalmic drug composition which contains Phe-Gly-Leu-Met-NH2 or its
 CC medicinally acceptable salts as the active ingredient. It is used,
 CC together with insulin like growth factor-I (IGF-I), to treat corneal
 CC disorders such as corneal ulcer, corneal epithelial peeling, dry eye and
 CC keratitis. The dosage is 0.1-5000 (preferably 1-1000) mg/day of the
 CC active ingredient and 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The
 CC preferable form of the composition is eye drops
 XX SQ Sequence 4 AA;
 SQ Query Match 85.7%; Score 18; DB 2; Length 4;
 Best Local Similarity 75.0%; Pred. No. 1.8e+06;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 DB 1 YGLM 4
 RESULT 13
 ABB10092
 ID ABB10092 standard; peptide; 4 AA.
 XX AC ABB10092;
 AC

Query Match 85.7%; Score 18; DB 1; Length 4;
 Best Local Similarity 75.0%; Pred. No. 1.8e+06;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 DB 1 FGLL 4
 RESULT 12
 AAW41686
 ID AAW41686 standard; peptide; 4 AA.
 XX AC AAW41686;
 XX DT 09-JUN-1998 (first entry)
 XX DE Tetrapeptide #3.
 XX KW Ophthalmic drug; corneal disorder; ulcer; epithelial peeling; dry eye;
 XX KW keratitis; insulin like growth factor-I; IGF-I; eye drop.
 XX OS Synthetic.
 XX FH Key Location/Qualifiers
 FT Modified-site 4
 FT /note= "C-terminal amide"
 XX PN WO9749419-A1.
 XX PD 31-DEC-1997.
 XX PF 11-JUN-1997; 97WO-JP002015.
 XX PR 26-JUN-1996; 96JP-00165612.
 XX PA (SANT) SANTEN PHARM CO LTD.
 XX PI Nishida T, Nakamura M, Nakata K;
 XX DR WPI; 1998-076907/07.
 XX PT Ophthalmic drug composition containing tetra:peptide - is useful as
 XX PT corneal disorder remedy for corneal ulcer, corneal epithelial peeling,
 XX PT dry eye, keratitis.
 XX PS Disclosure; Page 11; 19pp; Japanese.
 XX CC This sequence is shown in the specification. The invention relates to an
 CC ophthalmic drug composition which contains Phe-Gly-Leu-Met-NH2 or its
 CC medicinally acceptable salts as the active ingredient. It is used,
 CC together with insulin like growth factor-I (IGF-I), to treat corneal
 CC disorders such as corneal ulcer, corneal epithelial peeling, dry eye and
 CC keratitis. The dosage is 0.1-5000 (preferably 1-1000) mg/day of the
 CC active ingredient and 0.001-100 (preferably 0.01-10) mg/day of IGF-I. The
 CC preferable form of the composition is eye drops
 XX SQ Sequence 4 AA;
 SQ Query Match 85.7%; Score 18; DB 2; Length 4;
 Best Local Similarity 75.0%; Pred. No. 1.8e+06;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FGLM 4
 DB 1 YGLM 4
 RESULT 13
 ABB10092
 ID ABB10092 standard; peptide; 4 AA.
 XX AC ABB10092;
 AC

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XX DT 26-JUL-2002 (first entry)
XX DE Substance P analog used in wound healing treatment#15.
XX KW Wound healing; insulin-like growth factor-I; tear; abrasion; skin ulcer;
XX KW surgical incision; burn.
XX OS Unidentified.
XX PN WO200213853-A1.
XX XX 21-FEB-2002.
XX PF 10-AUG-2001; 2001WO-JP006933.
XX PR 10-AUG-2000; 2000JP-00242489.
XX PR 28-NOV-2000; 2000JP-00361388.
XX XX (SANT ) SANTEN PHARM CO LTD.
XX PA (NISH/) NISHIDA T.
XX PI Nishida T, Nakata K, Nakamura M;
XX XX WPI; 2002-269153/31.
XX DR Skin wound healing promoters or skin epidermal extension promoters
XX FT containing substance P analogs and insulin-like growth factor-I for
XX FT treating wounds like tear, abrasion, surgical incision, skin ulcers or
XX FT burns.
XX PS Disclosure; Page 4; 20pp; Japanese.
XX CC The invention relates to skin wound healing promoters, containing
XX CC substance P analogs or their pharmaceutically-acceptable salts, and
XX CC insulin-like growth factor-I as the active ingredient. The promoters are
XX CC for treating wounds like tears, abrasions, surgical incisions, or skin
XX CC ulcers and burns. The current sequence represents a substance P analog
XX CC for use in wound healing treatment
XX SQ Sequence 4 AA;

Query Match 85.7%; Score 18; DB 5; Length 4;
Best Local Similarity 75.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGLM 4
Db :|||
1 YGLM 4

RESULT 14
AAP61707
ID AAP61707 standard; peptide; 4 AA.
AC AAP61707;
XX 25-MAR-2003 (revised)
DT 03-OCT-2002 (revised)
DT 08-JUN-1991 (first entry)
XX Sequence located immediately adjacent to and upstream of the cleavage
DE site within a virus-specified polypeptide precursor.
DE DE Viral disease; diagnosis; picornavirus.
XX KW Synthetic.
XX OS
XX OS Location/Qualifiers
XX FT Key
XX FT Misc-difference 1
XX FT /note= "bonede to Boc, Z, Suc, or MeOSuc; Z-carbobenzoxo;
XX FT Bocst-Butyloxycarbonyl; Suc-Succinyl;
XX FT MeOSuc=Methoxysuccinyl"
XX FT

FT Misc-difference 4
FT /note= "Bonded to a chromogenic, fluorogenic,
FT chemiluminescent, radioactive, antigenic, or haptenic
FT indicator group."
XX EP187721-A.
XX 16-JUL-1986.
XX PF 10-JAN-1986; 86EP-00300147.
XX PR 11-JAN-1985; 85US-00690731.
XX XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX PI Kettner CA, Korant BD;
XX WPI; 1986-184617/29.
XX DR Peptide substrates for virus-specified protease(s) - with C-terminal
XX FT indicator gp. linked by amide or ester linkage.
XX PS Example; p22; 41pp; English.
XX CC The cpds. of the invention are useful in diagnosis of infectious diseases
XX CC caused by viruses which encode a specific protease e.g. picornaviruses.
XX CC (Updated on 03-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003
XX CC to correct PA field.)
XX SQ Sequence 4 AA;

Query Match 76.2%; Score 16; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGL 3
Db :|||
1 FGL 3

RESULT 15
AAP71312
ID AAP71312 standard; protein; 4 AA.
XX AC AAP71312;
XX DT 25-MAR-2003 (revised)
DT 15-MAY-1991 (first entry)
XX Peptide component of cpd. for treating picornavirus infections.
DE DE Picornaviridae; poliovirus; rhinovirus; antiviral agent.
XX KW Synthetic.
XX OS
XX XX US4636492-A.
XX PD 13-JAN-1987.
XX XX 29-AUG-1984; 84US-00645426.
XX PF 29-AUG-1984; 84US-00645426.
XX PR (DUPO ) DU PONT DE NEMOURS & CO E I.
XX PA Kettner CA, Korant BD;
XX PI WPI; 1987-036897/05.
XX DR Treating picorna-virus infection with peptide halo:methyl ketone cpds. -
XX FT esp. for treating polio virus and rhino virus infections.
XX PS Disclosure; Page 4; 10pp; English.

```

XX This peptide is useful as part of a peptide/halo-methyl ketone cpd., for
CC treating picornavirus, egpolio- or rhinovirus infections. It inhibits the
CC processing of picornavirus capsid proteins by virus encoded proteases.
CC See AAP71301-11 and AAP71313. See also US4652552. (Updated on 25-MAR-2003
CC to correct PA field.)
XX

SQ Sequence 4 AA;

Query Match 76.2%; Score 16; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGL 3

|||

Db 1 FGL 3

Search completed: March 23, 2005, 15:12:55
Job time : 167 secs

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OM protein - protein search, using sw model

Run on: March 23, 2005, 15:13:04 ; Search time 137 Seconds
(without alignments)
9.667 Million cell updates/sec

Title: SEQ3

Perfect score: 21

Sequence: 1 fglm 4

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1407402 seqs, 331100923 residues

Total number of hits satisfying chosen parameters: 9312

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	4	9	US-09-265-690C-2
2	21	100.0	4	14	US-10-230-133-3
3	21	100.0	4	14	US-10-053-669-2
4	21	100.0	4	16	US-10-695-536-3
5	21	100.0	4	16	US-10-805-881-2
6	21	100.0	4	17	US-10-497-628-2
7	16	76.2	4	9	US-09-879-442A-9
8	16	76.2	4	17	US-10-821-240A-270
9	15	71.4	3	14	US-10-230-133-2
10	15	71.4	3	16	US-10-695-536-2
11	14	66.7	4	9	US-09-879-442A-8
12	14	66.7	4	15	US-10-137-867-328
13	13	61.9	4	9	US-09-879-442A-98

14	13	61.9	4	9	US-09-879-442A-99	Sequence 99, Appl
15	13	61.9	4	9	US-09-943-123-24	Sequence 24, Appl
16	13	61.9	4	14	US-10-087-905-30	Sequence 30, Appl
17	13	61.9	4	14	US-10-087-942-30	Sequence 30, Appl
18	13	61.9	4	14	US-10-087-402-10	Sequence 10, Appl
19	13	61.9	4	14	US-10-083-894-31	Sequence 31, Appl
20	13	61.9	4	14	US-10-196-394-98	Sequence 98, Appl
21	13	61.9	4	14	US-10-202-824-11	Sequence 11, Appl
22	13	61.9	4	15	US-10-359-363A-104	Sequence 104, App
23	13	61.9	4	17	US-10-712-359A-24	Sequence 24, Appl
24	12	57.1	3	14	US-10-121-857-6	Sequence 6, Appl
25	12	57.1	3	14	US-10-255-679-3	Sequence 3, Appl
26	12	57.1	3	14	US-10-208-018-6	Sequence 6, Appl
27	12	57.1	3	14	US-10-104-307-3	Sequence 3, Appl
28	12	57.1	4	8	US-08-484-409-14	Sequence 14, Appl
29	12	57.1	4	8	US-08-484-409-25	Sequence 25, Appl
30	12	57.1	4	9	US-09-804-733A-24	Sequence 24, Appl
31	12	57.1	4	9	US-09-803-126-20	Sequence 20, Appl
32	12	57.1	4	10	US-09-726-470A-29	Sequence 29, Appl
33	12	57.1	4	10	US-09-563-222-1	Sequence 1, Appl
34	12	57.1	4	10	US-09-811-945-15	Sequence 15, Appl
35	12	57.1	4	13	US-10-007-761-62	Sequence 62, Appl
36	12	57.1	4	13	US-10-044-034-1	Sequence 1, Appl
37	12	57.1	4	13	US-10-044-034-25	Sequence 25, Appl
38	12	57.1	4	13	US-10-076-421-3	Sequence 3, Appl
39	12	57.1	4	14	US-10-087-905-14	Sequence 14, Appl
40	12	57.1	4	14	US-10-087-905-17	Sequence 17, Appl
41	12	57.1	4	14	US-10-255-679-2	Sequence 2, Appl
42	12	57.1	4	14	US-10-255-679-5	Sequence 5, Appl
43	12	57.1	4	14	US-10-255-679-11	Sequence 11, Appl
44	12	57.1	4	14	US-10-255-679-12	Sequence 12, Appl
45	12	57.1	4	14	US-10-255-679-13	Sequence 13, Appl

ALIGNMENTS

RESULT 1

US-09-265-690C-2
; Sequence 2, Application US/09265690C
; Publication No. US20010051345A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound M
; FILE OF INVENTION: for Disease Diagnosis
; FILE REFERENCE: 1427001
; CURRENT APPLICATION NUMBER: US/09/265,690C
; CURRENT FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-09-265-690C-2

Query Match 100.0%; Score 21; DB 9; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGLM 4

DB 1 FGLM 4

RESULT 2

US-10-230-133-3
; Sequence 3, Application US/10230133
; Publication No. US20030040625A1

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; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
; FILE OF INVENTION: methods for treatment of abnormal physiological states
; FILE REFERENCE: 2892-106
; CURRENT APPLICATION NUMBER: US/10/230,133
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 09/635,266
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: MOD RES
; FEATURE:
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-10-230-133-3

Query Match          100.0%; Score 21; DB 14; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4

RESULT 3
US-10-053-669-2
; Sequence 2, Application US/10053669
; Publication No. US20030077658A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
; FILE OF INVENTION: for Disease Diagnosis
; FILE REFERENCE: N1427-005
; CURRENT APPLICATION NUMBER: US/10/053,669
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: 09/265,690
; PRIOR FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: MOD RES
; FEATURE:
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-10-053-669-2

Query Match          100.0%; Score 21; DB 14; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4

RESULT 4
US-10-695-536-3
; Sequence 3, Application US/10695536
; Publication No. US20040110692A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert Clifton
; TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents
; FILE OF INVENTION: and Methods for Treatment of Abnormal Physiological States
; FILE REFERENCE: 800812-0008
```

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; CURRENT APPLICATION NUMBER: US/10/695,536
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 10/230,133
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US 09/635,266
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: MOD RES
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-10-695-536-3

Query Match          100.0%; Score 21; DB 16; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4

RESULT 5
US-10-805-881-2
; Sequence 2, Application US/10805881
; Publication No. US20040171093A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert C.
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound
; FILE OF INVENTION: Magnesium for Disease Diagnosis
; FILE REFERENCE: 800812-0005
; CURRENT APPLICATION NUMBER: US/10/805,881
; CURRENT FILING DATE: 2004-03-22
; PRIOR APPLICATION NUMBER: US 10/053,669
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 10/695,536
; PRIOR FILING DATE: 2003-10-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: MOD RES
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-10-805-881-2

Query Match          100.0%; Score 21; DB 16; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4

RESULT 6
US-10-497-628-2
; Sequence 2, Application US/10497628
; Publication No. US20050009752A1
; GENERAL INFORMATION:
; APPLICANT: Teruo Nishida
; APPLICANT: Makoto Inui
; APPLICANT: Masatsugu Nakamura
; TITLE OF INVENTION: NOVEL PEPTIDE AND PHARMACEUTICAL USE OF THE SAME
; FILE REFERENCE: 04355/HG
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; CURRENT APPLICATION NUMBER: US/10/497,628
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: JP 2001-368103
; PRIOR FILING DATE: 2001-12-01
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Human
US-10-497-628-2

Query Match 100.0%; Score 21; DB 17; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGLM 4
|||
Db 1 FGLM 4

RESULT 7

US-09-879-442A-9
; Sequence 9, Application US/09879442A
; Patent No. US20020142955A1
; GENERAL INFORMATION:
; APPLICANT: CORIXA CORPORATION
; APPLICANT: Dubois, Vincent
; APPLICANT: Fernandez, Anne Marie
; APPLICANT: Gangwar, Sanjeev
; APPLICANT: Lewis, Evan
; APPLICANT: Lobl, Thomas J.
; APPLICANT: Nieder, Matthew H.
; APPLICANT: Pickford, Lesley B.
; APPLICANT: Trouet, Andre
; APPLICANT: Yarranton, Geoffrey T.
; TITLE OF INVENTION: ENZYME CLEAVABLE PRODRUG COMPOUNDS
; FILE REFERENCE: COUL-015/02US
; CURRENT APPLICATION NUMBER: US/09/879,442A
; CURRENT FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: 60/290,448
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 60/211,887
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: PCT/US99/30393
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: 60/119,312
; PRIOR FILING DATE: 1999-02-08
; PRIOR APPLICATION NUMBER: 60/111,793
; PRIOR FILING DATE: 1998-12-11
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Beta-Alanine
US-09-879-442A-9

Query Match 76.2%; Score 16; DB 9; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGL 3
|||
Db 2 FGL 4

RESULT 8

US-10-821-240A-270
; Sequence 270, Application US/10821240A
; Publication No. US20050037430A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Nisar A.
; APPLICANT: Benner, Robert
; TITLE OF INVENTION: Gene regulator
; FILE REFERENCE: 2183-5223US
; CURRENT APPLICATION NUMBER: US/10/821,240A
; CURRENT FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 10/028,075
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: EP 01203748.7
; PRIOR FILING DATE: 2001-10-04
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 270
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: derivative peptide based on r
; OTHER INFORMATION: metalloproteinase-2
US-10-821-240A-270

Query Match 76.2%; Score 16; DB 17; Length 4;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGL 3
|||
Db 2 FGL 4

RESULT 9

US-10-230-133-2
; Sequence 2, Application US/10230133
; Publication No. US20030040625A1
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
; TITLE OF INVENTION: methods for treatment of abnormal physiological states
; FILE REFERENCE: 2892-106
; CURRENT APPLICATION NUMBER: US/10/230,133
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 09/635,266
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 3
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RBS
; LOCATION: (3)..(3)
; OTHER INFORMATION: AMIDATION
US-10-230-133-2

Query Match 71.4%; Score 15; DB 14; Length 3;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GLM 4
|||
Db 1 GLM 3

RESULT 10

US-10-695-536-2
; Sequence 2, Application US/10695536
; Publication No. US20040110692A1
; GENERAL INFORMATION:

APPLICANT: Wells, Ibert Clifton
TITLE OF INVENTION: Antagonists of the Magnesium Binding Defect as Therapeutic Agents
FILE REFERENCE: 800812-0008
CURRENT FILING DATE: 2003-10-28
PRIOR FILING DATE: 2003-10-28
PRIOR FILING DATE: 2002-08-29
PRIOR FILING DATE: 2002-08-29
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 4
SEQ ID NO 2
SEQ ID NO 2
LENGTH: 3
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MOD_RES
LOCATION: (3)..(3)
OTHER INFORMATION: AMIDATION
US-10-695-536-2

Query Match 71.4%; Score 15; DB 16; Length 3;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GLM 4
|||
DB 1 GLM 3

RESULT 11

US-09-879-442A-8
Sequence 8, Application US/09879442A
Patent No. US20020142955A1
GENERAL INFORMATION:
APPLICANT: CORIXA CORPORATION
APPLICANT: Dubois, Vincent
APPLICANT: Fernandez, Anne Marie
APPLICANT: Gangwar, Sanjeev
APPLICANT: Lewis, Evan
APPLICANT: Lobl, Thomas J.
APPLICANT: Nieder, Matthew H.
APPLICANT: Pickford, Lesley B.
APPLICANT: Trouet, Andre
APPLICANT: Varranton, Geoffrey T.
TITLE OF INVENTION: ENZYME CLEAVABLE PRODRUG COMPOUNDS
FILE REFERENCE: COUL-015/0205
CURRENT APPLICATION NUMBER: US/09/879,442A
CURRENT FILING DATE: 2001-06-11
PRIOR APPLICATION NUMBER: 60/290,448
PRIOR FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 60/211,887
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: PCT/US99/30393
PRIOR FILING DATE: 1999-12-10
PRIOR APPLICATION NUMBER: 60/119,312
PRIOR FILING DATE: 1999-02-08
PRIOR APPLICATION NUMBER: 60/111,793
PRIOR FILING DATE: 1998-12-11
NUMBER OF SEQ ID NOS: 103
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 4
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Beta-Alanine
US-09-879-442A-8

Query Match 66.7%; Score 14; DB 9; Length 4;
Best Local Similarity 66.7%; Pred. No. 1.3e+06;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGL 3
|||
DB 2 FGL 4

RESULT 12

US-10-137-867-328
Sequence 328, Application US/10137867
Publication No. US20030207349A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330RIC146
CURRENT APPLICATION NUMBER: US/10/137,867
CURRENT FILING DATE: 2002-05-03
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 328
LENGTH: 379
TYPE: PRT
ORGANISM: Homo Sapien
US-10-137-867-328

Query Match 66.7%; Score 14; DB 15; Length 4;
Best Local Similarity 66.7%; Pred. No. 1.3e+06;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGL 3
|||
DB 2 FGL 4

RESULT 13

US-09-879-442A-98
Sequence 98, Application US/09879442A
Patent No. US20020142955A1
GENERAL INFORMATION:
APPLICANT: CORIXA CORPORATION
APPLICANT: Dubois, Vincent
APPLICANT: Fernandez, Anne Marie
APPLICANT: Gangwar, Sanjeev
APPLICANT: Lewis, Evan
APPLICANT: Lobl, Thomas J.
APPLICANT: Nieder, Matthew H.
APPLICANT: Pickford, Lesley B.
APPLICANT: Trouet, Andre
APPLICANT: Varranton, Geoffrey T.
TITLE OF INVENTION: ENZYME CLEAVABLE PRODRUG COMPOUNDS
FILE REFERENCE: COUL-015/0205
CURRENT APPLICATION NUMBER: US/09/879,442A
CURRENT FILING DATE: 2001-06-11
PRIOR APPLICATION NUMBER: 60/290,448

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; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 60/211,887
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: PCT/US99/30393
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: 60/119,312
; PRIOR FILING DATE: 1999-02-08
; PRIOR APPLICATION NUMBER: 60/111,793
; PRIOR FILING DATE: 1998-12-11
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 98
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: 2-Thienylalanine
;
US-09-879-442A-98

Query Match          61.9%; Score 13; DB 9; Length 4;
Best Local Similarity 66.7%; Pred. No. 1.3e+06;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGL 3
        :||
Db      2 YGL 4

RESULT 14
US-09-879-442A-99
; Sequence 99, Application US/09879442A
; Patent No. US20020142955A1
; GENERAL INFORMATION:
; APPLICANT: CORIXA CORPORATION
; APPLICANT: Dubois, Vincent
; APPLICANT: Fernandez, Anne Marie
; APPLICANT: Gangwar, Sanjeev
; APPLICANT: Lewis, Evan
; APPLICANT: Lobl, Thomas J.
; APPLICANT: Nieder, Matthew H.
; APPLICANT: Pickford, Lesley B.
; APPLICANT: Trouet, Andre
; APPLICANT: Varranton, Geoffrey T.
; TITLE OF INVENTION: ENZYME CLEAVABLE PRODRUG COMPOUNDS
; FILE REFERENCE: COUL-015/020S
; CURRENT APPLICATION NUMBER: US/09/879,442A
; CURRENT FILING DATE: 2001-06-11
; PRIOR APPLICATION NUMBER: 60/290,448
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 60/211,887
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: PCT/US99/30393
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: 60/119,312
; PRIOR FILING DATE: 1999-02-08
; PRIOR APPLICATION NUMBER: 60/111,793
; PRIOR FILING DATE: 1998-12-11
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 99
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Beta-Alanine
;
US-09-879-442A-99

Query Match          61.9%; Score 13; DB 9; Length 4;
Best Local Similarity 66.7%; Pred. No. 1.3e+06;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGL 3
        :||
Db      2 YGL 4

RESULT 15
US-09-943-123-24
; Sequence 24, Application US/09943123
; Publication No. US20020182701A1
; GENERAL INFORMATION:
; APPLICANT: CHANG, Y-H
; APPLICANT: MICKA, W.S.
; APPLICANT: VETRO, J.A.
; TITLE OF INVENTION: Dominant Negative Variants of Methionine Aminopeptidase
; FILE REFERENCE: 16153-8007
; CURRENT APPLICATION NUMBER: US/09/943,123
; CURRENT FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 24
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide
;
US-09-943-123-24

Query Match          61.9%; Score 13; DB 9; Length 4;
Best Local Similarity 66.7%; Pred. No. 1.3e+06;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 GLM 4
        :||
Db      2 GMM 4

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Job time : 138 secs
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OM protein - protein search, using sw model

Run on: March 23, 2005, 15:04:03 ; Search time 41 Seconds
(without alignments)
7.283 Million cell updates/sec

Title: SEQ3

Perfect score: 21

Sequence: 1 fglm 4

Scoring table: BLOSUM62

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Searched: 513545 seqs, 74649064 residues

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Maximum DB seq length: 4

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	4	1 US-08-441-591-63	Sequence 63, Appl
2	21	100.0	4	1 US-08-303-362A-63	Sequence 63, Appl
3	21	100.0	4	3 US-09-265-690C-2	Sequence 2, Appl
4	21	100.0	4	4 US-09-635-266-3	Sequence 3, Appl
5	21	100.0	4	4 US-10-230-133-3	Sequence 3, Appl
6	21	100.0	4	5 PCT-US95-05600-80	Sequence 80, Appl
7	16	76.2	4	2 US-08-747-137-124	Sequence 124, Appl
8	16	76.2	4	3 US-08-722-128A-20	Sequence 20, Appl
9	15	71.4	3	4 US-09-635-266-2	Sequence 2, Appl
10	15	71.4	3	4 US-10-230-133-2	Sequence 2, Appl
11	15	71.4	4	2 US-08-070-301-8	Sequence 8, Appl
12	15	71.4	4	2 US-08-433-401-4	Sequence 4, Appl
13	14	66.7	4	3 US-08-793-701-25	Sequence 25, Appl
14	14	66.7	4	4 US-09-579-264-37	Sequence 25, Appl
15	13	61.9	4	2 US-08-429-964-25	Sequence 37, Appl
16	13	61.9	4	3 US-08-812-586-60	Sequence 60, Appl
17	13	61.9	4	4 US-08-669-656A-11	Sequence 11, Appl
18	13	61.9	4	4 US-09-535-832A-56	Sequence 56, Appl
19	13	61.9	4	4 US-09-665-362A-31	Sequence 31, Appl
20	13	61.9	4	4 US-09-665-637-31	Sequence 31, Appl
21	13	61.9	4	4 US-10-087-402-10	Sequence 10, Appl
22	13	61.9	4	5 PCT-US93-08062-37	Sequence 37, Appl
23	12	57.1	3	1 US-08-343-943-4	Sequence 4, Appl
24	12	57.1	3	2 US-09-060-455-2	Sequence 2, Appl
25	12	57.1	3	4 US-09-150-621-3	Sequence 3, Appl
26	12	57.1	3	4 US-10-121-857-6	Sequence 6, Appl
27	12	57.1	4	1 US-07-657-769B-58	Sequence 58, Appl

28	12	57.1	4	1 US-07-822-924-3	Sequence 3, Appl
29	12	57.1	4	1 US-07-822-924-5	Sequence 5, Appl
30	12	57.1	4	1 US-07-822-924-7	Sequence 7, Appl
31	12	57.1	4	1 US-08-285-777-1	Sequence 1, Appl
32	12	57.1	4	1 US-08-147-270A-1	Sequence 1, Appl
33	12	57.1	4	1 US-07-969-307A-1	Sequence 1, Appl
34	12	57.1	4	1 US-07-969-307A-2	Sequence 2, Appl
35	12	57.1	4	1 US-07-969-307A-3	Sequence 3, Appl
36	12	57.1	4	1 US-08-127-904-11	Sequence 11, Appl
37	12	57.1	4	1 US-08-431-539-4	Sequence 4, Appl
38	12	57.1	4	1 US-08-331-383-10	Sequence 10, Appl
39	12	57.1	4	1 US-08-429-732-20	Sequence 20, Appl
40	12	57.1	4	1 US-07-789-184-108	Sequence 108, App
41	12	57.1	4	1 US-08-549-008-10	Sequence 10, App
42	12	57.1	4	1 US-08-624-123-11	Sequence 11, Appl
43	12	57.1	4	1 US-08-077-252B-20	Sequence 20, Appl
44	12	57.1	4	1 US-08-475-263-108	Sequence 108, App
45	12	57.1	4	1 US-08-485-886-108	Sequence 108, App

ALIGNMENTS

RESULT 1
US-08-441-591-63
; Sequence 63, Application US/08441591
; Patent No. 5637682
; GENERAL INFORMATION:
; APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
; TITLE OF INVENTION: HIGH-AFFINITY
; TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
; TITLE OF INVENTION: TO THE TACHYKININ
; TITLE OF INVENTION: SUBSTANCE P
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Swanson & Bratschun, L.L.C.
; STREET: 8400 E. Prentice Avenue, Suite 200
; CITY: Englewood
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,591
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/303,362
; FILING DATE: 9-SEPTEMBER-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/714,131
; FILING DATE: 10-JUNE-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/931,473
; FILING DATE: 17-AUGUST-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/117,991
; FILING DATE: 8-SEPTEMBER 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428
; FILING DATE: 11-JUNE-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/964,624
; FILING DATE: 21-OCTOBER-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Barry J. Swanson
; REGISTRATION NUMBER: 33,215
; REFERENCE/DOCKET NUMBER: NEX21/C
; TELECOMMUNICATION INFORMATION:

```
; TELEPHONE: (303) 793-3333
; TELEFAX: (303) 793-3433
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-441-591-63

Query Match      100.0%; Score 21; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4

RESULT 2
US-08-303-362A-63
; Sequence 63, Application US/08303362A
; Patent No. 5648214
; GENERAL INFORMATION:
; APPLICANT: NIEUWLANDT, D., GOLD, L. AND WECKER, M.
; TITLE OF INVENTION: HIGH-AFFINITY
; TITLE OF INVENTION: OLIGONUCLEOTIDE LIGANDS
; TITLE OF INVENTION: TO THE TACHYKININ
; TITLE OF INVENTION: SUBSTANCE P
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Swanson & Bratschun, L.L.C.
; STREET: 8400 E. Prentice Avenue, Suite 200
; CITY: Englewood
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MG storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,362A
; FILING DATE: 9-SEPTEMBER-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/714,131
; FILING DATE: 10-JUNE-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/931,473
; FILING DATE: 17-AUGUST-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/117,991
; FILING DATE: 8-SEPTEMBER 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428
; FILING DATE: 11-JUNE-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/964,624
; FILING DATE: 21-OCTOBER-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Barry J. Swanson
; REGISTRATION NUMBER: 33,215
; REFERENCE/DOCKET NUMBER: NEX21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 793-3333
; TELEFAX: (303) 793-3433
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4
; TYPE: amino acid
; STRANDEDNESS: single
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; TOPOLOGY: linear
US-08-303-362A-63

Query Match      100.0%; Score 21; DB 1; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4

RESULT 3
US-09-265-690C-2
; Sequence 2, Application US/09265690C
; Patent No. 6372440
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Method for Detecting Deficient Cellular Membrane Tightly Bound Ma
; TITLE OF INVENTION: for Disease Diagnosis
; FILE REFERENCE: 1427001
; CURRENT APPLICATION NUMBER: US/09/265,690C
; CURRENT FILING DATE: 1999-03-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-09-265-690C-2

Query Match      100.0%; Score 21; DB 3; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4

RESULT 4
US-09-635-266-3
; Sequence 3, Application US/09635266
; Patent No. 6455734
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
; TITLE OF INVENTION: methods for treatment of abnormal physiological states
; FILE REFERENCE: N1427-002
; CURRENT APPLICATION NUMBER: US/09/635,266
; CURRENT FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (4)..(4)
; OTHER INFORMATION: AMIDATION
US-09-635-266-3

Query Match      100.0%; Score 21; DB 4; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FGLM 4
DB      1 FGLM 4
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/248,632
; FILING DATE: 24-MAY-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/303,362
; FILING DATE: 09-SEPTEMBER-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/361,795
; FILING DATE: 21-DECEMBER-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/117,991
; FILING DATE: 08-SEPTEMBER-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/931,473
; FILING DATE: 17-AUGUST-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/964,624
; FILING DATE: 21-OCTOBER-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428
; FILING DATE: 11-JUNE-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/714,131
; FILING DATE: 10-JUNE-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/536,428
; FILING DATE: 11-JUNE-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Barry J. Swanson
; REGISTRATION NUMBER: 33,215
; REFERENCE/DOCKET NUMBER: NEX17/PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 793-3333
; TELEFAX: (303) 793-3433
; INFORMATION FOR SEQ ID NO: 80:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PCT-US95-05600-80

Query Match 100.0%; Score 21; DB 5; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGLM 4
Db 1 FGLM 4
|||||

RESULT 7
US-08-747-137-124
; Sequence 124, Application US/08747137
; Patent No. 5945033
; GENERAL INFORMATION:
; APPLICANT: YEN, Richard C.K.
; TITLE OF INVENTION: NON-CROSSLINKED PROTEIN PARTICLES FOR
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC USE
; NUMBER OF SEQUENCES: 184
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30

```

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/747,137
; FILING DATE: 12-NOV-1996
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/212,546
; FILING DATE: 14-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/069,831
; FILING DATE: 01-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/959,560
; FILING DATE: 13-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/641,720
; FILING DATE: 15-JAN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Apple, Randolph T.
; REGISTRATION NUMBER: 36,429
; REFERENCE/DOCKET NUMBER: 016197-000840US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-576-0200
; INFORMATION FOR SEQ ID NO: 124:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 4
; OTHER INFORMATION: /product= "Met-Amide"
US-08-747-137-124

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Query Match 76.2%; Score 16; DB 2; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 FGL 3
   |||
DB 1 FGL 3

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```

RESULT 8
US-08-722-126A-20
; Sequence 20, Application US/08722126A
; Patent No. 6034227
; GENERAL INFORMATION:
; APPLICANT: PECHT, Israel
; APPLICANT: GUTHMANN, Marcelo D.
; APPLICANT: TAL, Michael
; TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL
; TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAFA)
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSER: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 419 Seventh Street N.W., Ste. 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/722,126A
; FILING DATE: 08-OCT-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04258
; FILING DATE: 06-APR-1995

```

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 109257
; FILING DATE: 08-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: PECHT-1A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 628-5197
; TELEFAX: (202) 737-3528
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-722-126A-20

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```

Query Match 76.2%; Score 16; DB 3; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 FGL 3
   |||
DB 2 FGL 4

```

```

RESULT 9
US-09-635-266-2
; Sequence 2, Application US/09635266
; Patent No. 6455734
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
; TITLE OF INVENTION: methods for treatment of abnormal physiological states
; FILE REFERENCE: N1427-002
; CURRENT APPLICATION NUMBER: US/09/635,266
; CURRENT FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 2
; LENGTH: 3
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD.RES
; LOCATION: (3)..(3)
; OTHER INFORMATION: AMIDATION
US-09-635-266-2

```

```

Query Match 71.4%; Score 15; DB 4; Length 3;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 2 GLM 4
   |||
DB 1 GLM 3

```

```

RESULT 10
US-10-230-133-2
; Sequence 2, Application US/10230133
; Patent No. 6664420
; GENERAL INFORMATION:
; APPLICANT: Wells, Ibert
; TITLE OF INVENTION: Antagonists of the magnesium binding defect as therapy agents and
; TITLE OF INVENTION: methods for treatment of abnormal physiological states
; FILE REFERENCE: 2892-106
; CURRENT APPLICATION NUMBER: US/10/230,133
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 09/635,266
; PRIOR FILING DATE: 2000-08-09

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; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 3
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (3)..(3)
; OTHER INFORMATION: AMIDATION
US-10-230-133-2

Query Match 71.4%; Score 15; DB 4; Length 3;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GLM 4
|||
Db 1 GLM 3

RESULT 11

US-08-070-301-8
; Sequence 8, Application US/08070301
; Patent No. 5871995

; GENERAL INFORMATION:

; APPLICANT: IIDA, Toshio
; APPLICANT: KAMINUMA, Toshihiko
; APPLICANT: FUSE, Yuka
; APPLICANT: TAJIMA, Masahiro
; APPLICANT: YANAGI, Mitsuo
; APPLICANT: OKAMOTO, Hiroshi
; APPLICANT: KISHIMOTO, Jiro
; APPLICANT: IFUKU, Ohji
; APPLICANT: KATO, Ichiro

; TITLE OF INVENTION: ENZYME PARTICIPATING IN C-TERMINAL

; TITLE OF INVENTION: AMIDATION, AND METHOD OF PREPARING SAME AND USE THEREOF

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Wegner, Cantox, Mueller & Player, P.C.

; STREET: 1233 20th Street, N.W.

; CITY: Washington

; STATE: D.C.

; COUNTRY: U.S.A.

; ZIP: 20036-8218

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/070,301

; FILING DATE: 24-MAY-1991

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: JP 1-209687

; FILING DATE: 15-AUG-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: JP 1-181933

; FILING DATE: 31-OCT-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: JP 2-76331

; FILING DATE: 26-MAR-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: JP 2-106412

; FILING DATE: 24-APR-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: JP 2-205475

; FILING DATE: 02-AUG-1990

; ATTORNEY/AGENT INFORMATION:

; NAME: Player, William E.

; REGISTRATION NUMBER: 31,409

; REFERENCE/DOCKET NUMBER: P-450-22830

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 887-040

; TELEFAX: (202) 835-0605

; TELEX: 440706

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; OTHER INFORMATION: peptide

US-08-070-301-8

Query Match 71.4%; Score 15; DB 2; Length 4;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GLM 4
|||
Db 1 GLM 3

RESULT 12

US-08-433-401-4

; Sequence 4, Application US/08433401

; Patent No. 5872097

; GENERAL INFORMATION:

; APPLICANT: Ph lenhag, Karin I.

; APPLICANT: Fryklund, Linda

; APPLICANT: Larsson, Bo C.

; APPLICANT: Nyberg, Fred J.

; APPLICANT: Westin-SJ dahl, Gertrud E.

; APPLICANT: Ludin, Ronny

; TITLE OF INVENTION: New Oligopeptides with Affinity to

; TITLE OF INVENTION: Opioid Receptors

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Pollock, Vande Sande & Priddy

; STREET: 1990 M Street, N.W., Suite 800

; CITY: Washington

; STATE: D.C.

; COUNTRY: US

; ZIP: 20036-0088

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/433,401

; FILING DATE: 18-MAY-1995

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/SE93/00986

; FILING DATE: 18-NOV-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: SE 9203496-6

; FILING DATE: 20-NOV-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Amernick, Burton A.

; REGISTRATION NUMBER: 24,852

; REFERENCE/DOCKET NUMBER: 151/00118

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 331-7111

; TELEFAX: (202) 223-2596

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-433-401-4

Query Match 71.4%; Score 15; DB 2; Length 4;
 Best Local Similarity 50.0%; Pred. No. 4.1e+05;
 Matches 2; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGLM 4
 :||:
 Db 1 YGLL 4

RESULT 13
 US-08-793-701-25
 ; Sequence 25, Application US/08793701
 ; Patent No. 6248581
 ; GENERAL INFORMATION:
 ; APPLICANT: GICQUEL, Brigitte
 ; APPLICANT: LIM, Eng Mong
 ; APPLICANT: PORTNOI, Denis
 ; APPLICANT: BERTHET, Francois-Xavier
 ; APPLICANT: TIMM, Juliano
 ; TITLE OF INVENTION: MYCOBACTERIA FUNCTIONAL SCREENING AND/OR
 ; NUMBER OF SEQUENCES: 63
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: c/o FINNEGAN, HENDERSON, FARRABOW, GARRETT &
 ; ADDRESSEE: DUNNER, L.L.P.
 ; STREET: 1300 I Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/793,701
 ; FILING DATE: 09-JUN-1997
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/FR9501133
 ; FILING DATE: 30-AUG-1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: FR 94/10585
 ; FILING DATE: 02-SEP-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: McDonnell, Leslie A.
 ; REGISTRATION NUMBER: 34,872
 ; REFERENCE/DOCKET NUMBER: 02356.0075
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 408-4132
 ; TELEFAX: (202) 408-4400
 ; INFORMATION FOR SEQ ID NO: 25:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 4 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-793-701-25

Query Match 66.7%; Score 14; DB 3; Length 4;
 Best Local Similarity 66.7%; Pred. No. 4.1e+05;
 Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGL 3
 :||:
 Db 2 FGI 4

RESULT 14
 US-09-579-264-25
 ; Sequence 25, Application US/09579264

Patent No. 6565855
 ; GENERAL INFORMATION:
 ; APPLICANT: GICQUEL, Brigitte
 ; APPLICANT: LIM, Eng Mong
 ; APPLICANT: PORTNOI, Denis
 ; APPLICANT: BERTHET, Francois-Xavier
 ; APPLICANT: TIMM, Juliano
 ; TITLE OF INVENTION: MYCOBACTERIA FUNCTIONAL SCREENING AND/OR
 ; NUMBER OF SEQUENCES: 63
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: c/o FINNEGAN, HENDERSON, FARRABOW, GARRETT &
 ; ADDRESSEE: DUNNER, L.L.P.
 ; STREET: 1300 I Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/579,264
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/793,701
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: FR 94/10585
 ; FILING DATE: 02-SEP-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: McDonnell, Leslie A.
 ; REGISTRATION NUMBER: 34,872
 ; REFERENCE/DOCKET NUMBER: 02356.0075
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 408-4132
 ; TELEFAX: (202) 408-4400
 ; INFORMATION FOR SEQ ID NO: 25:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 4 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-579-264-25

Query Match 66.7%; Score 14; DB 4; Length 4;
 Best Local Similarity 66.7%; Pred. No. 4.1e+05;
 Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FGL 3
 :||:
 Db 2 FGI 4

RESULT 15
 US-08-429-964-37
 ; Sequence 37, Application US/08429964
 ; Patent No. 5962243
 ; GENERAL INFORMATION:
 ; APPLICANT: BROWN, MICHAEL S.
 ; APPLICANT: GOLDSTEIN, JOSEPH L.
 ; APPLICANT: REISS, YUVAL
 ; APPLICANT: JAMES, GUY L.
 ; TITLE OF INVENTION: METHODS FOR THE IDENTIFICATION OF FARNESYL
 ; TRANSFERASE INHIBITORS
 ; NUMBER OF SEQUENCES: 85
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON

STATE: TEXAS
COUNTRY: UNITED STATES OF AMERICA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/429,964
FILING DATE: 27-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/021,625
FILING DATE: 16-FEB-1993
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/822,011
FILING DATE: ABANDONED
CLASSIFICATION: 435
APPLICATION NUMBER: PCT/US/91/02650
FILING DATE: 18-APR-1991
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/615,715
FILING DATE: 20-NOV-1990
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/510,706
FILING DATE: 18-APR-1990 (ABANDONED)
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: PARKER, DAVID L.
REGISTRATION NUMBER: 32,165
REFERENCE/DOCKET NUMBER: UTSD:432/PAR
TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-3000
TELEFAX: (713) 789-2679
TELEX: 79-0924
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-429-964-37

Query Match 61.9%; Score 13; DB 2; Length 4;
Best Local Similarity 66.7%; Pred. NO. 4.1e+05;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GLM 4
|:|
Db 2 GIM 4

Search completed: March 23, 2005, 15:14:28
Job time : 42 secs

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Protein Sequence Searches - February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.

- If you encounter an accession number from an older search run against UniProt (results file extension **.rnp**) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (UniPARC) at:

<http://www.pir.uniprot.org/database/archive.shtml>

If you have any questions regarding this information or your results, please contact any STIC searcher.

When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.

Application Number



10/305,418

Examiner

Barbara P. Badio, Ph.D.

1617

Art Unit

BOHLMANN ET AL.

Applicant(s)/Patent under
Reexamination

Application/Control No.